

P U B L I C A T I O N S

## PRESENTS

## 




Over 500 different puzzles designed to give your br ultimate workou

## MENSA <br> ——Publications ——



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# THE ULTIMATE MENTAL CHALLENGE 

Robert Allen

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| BOOKIS |

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## INTRODUCION

You might think it silly to call a puzzle book The Ultimate Mental Challenge. After all, it's only a bit of fun, isn't it? Surely a grandiose title like that should be reserved for something serious and worthy; the sort of mental effort associated with Einstein or Beethoven or Shakespeare. But wait These puzzles may be of no importance whatever. It doesn't really matter whether you can solve them or not - except to you. Just let yourself get hooked on this book (the easy section is simply there to lure you in), and you will find the challenge irresistible. A curious relationship exists between a puzzle setter and the reader. Each tries to read the other's mind, to anticipate the mental processes that go into the construction of a puzzle. It becomes a battle of wits in which either side strives for supremacy. So although you may not think this is your ultimate challenge, you could be in for a surprise.

## THE ULTIMATE MENTAL CHALLENGE

If you like puzzles you will like Mensa, a society that exists entirely for people who are adept at solving the knottiest problems. If you would like to take the Mensa test and meet people of like mind, then write to us at British Mensa Limited, Mensa House, St John's Square, Wolverhampton, WV2 4AH England.

I should like to thank all those who helped with this book. In particular I should like to mention my wife Doris, our friend Josie Fulton, and puzzler David Ballheimer, who edits my outpourings without mercy and saves me from making a fool of myself in public.

## R.p other

Robert Allen
Editorial Director, Mensa Publications June, 1995


PUZZLE 1

Which of these
patterns fits into the blank section?

See answer 25


Can you find the number which comes next in this sequence?


## PUZZLE 3

Can you correct this equation by moving one match?


## PUZZLE 4

Which of the following cubes cannot be made from this layout?

See answer 15


PUZZLE 6
Can you replace the question mark
with a number to meet
the conditions of the wheel?
See answer 58

## LEVEL 1



These tiles, when placed in right order, will form a square in which each horizontal line is identical with one vertical line.
Can you successfully form the square?

# ULFCHANIH <br> VYNBYMXU WIFOGVCU JCEY <br> MCFPYL MJLCHA GIOHN LUCHCYL WBYPS WBUMY AYILAYNIQH UHUWIMNCU 

## PUZIE 8

Here are the coded names of some places in or around Washington, D.C. Try to unravel them.

See answer 62


## PUZZLE 9

This diagram was constructed according to a certain logic. Can you work out which number should replace the question mark?

See answer 104
$9 \quad 4$

24
$5 \quad 7$
4
2
2

34
A
B
C
$6 \quad 7$
32
110
36

## PUZZLE 10

Can you find the number to go at the bottom of
triangle D ?
See answer 87

## LEVEL 1



5
6
A
3
4
B


## PUZZLE 12

Can you find out the relationship of the letters and numbers in this square and find out which number should replace the question mark?

See answer 35


## PUZZLE 13

Can you work out how the numbers in the triangles are related and find the missing number?

## PUZZLE 14



## VKHEOHC <br> THRBCE <br> EWDIL <br> TBTEEKC <br> TGNEE <br> EEOHTG <br> NBESI CAIREN

(Russian)
(Cerman)
(French)
(German)
(Norwegian)
(French)

## PUZZIE 15

The above are all anagrams of the names of famous playrights. The nationality is given in brackets to help you.

See answer 114

$\left(\begin{array}{llll}41 & 12 & 1 & \\ 10 & & & 2 \\ 9 & & ? & \\ 8 & & & \\ 7 & 6 & 5\end{array}\right)$

## PUZZLE 17

Can you work out the time on the blank clock face?


Can you find the odd ball out?
See answer 122


In this diagram, starting from the top of the diamond and working in a clockwise direction, the four basic mathematical signs ( $+,-, x, \dot{\div}$ ) have been omitted Your task is to restore them so that the calculation, with answer in the middle, is correct.

## LEVEL 1



## PUZZLE 18

Can you find the symbol that will balance the
last set of scales?

See answer 101


The diagram represents an old-fashioned telephone dial with letters as well as numbers. Below is a list of numbers representing ten American States. Can you use the diagram to decode them?

See answer 1
A. 1143256531 F. 562355
B. 72917
G. 83633531
C. 52161741
H. 2456321
D. 141741
I. 15456125
E. 32135
J. 1630551

LEVEL 1



D


F


E


G

## PUZZLE 21



## PUZZLE 22

Can you find the odd face out?
See answer 12


Which matchstick man, G, H or L, would carry on the sequence?


The above is a simple subtitution code which concent the nities of eight internatomal aipoots See il you can crack the wole

## See answer 128



A curious logic governs the numbers in these circles. Can you discover what it is and then work out what the missing number should be?

## LEVEL 1



These tiles, when placed in right order, will form
a square in which each horizontal line is
identical with one vertical line.
Can you successfully form the square?
See answer 51



## PUZZLE 28

Can you find out which symbol would balance the third scale?

See answer 96


Can you complete this series?

| 1 | + | - |  |  | $\cdots$ |  | X | X | $X$ | + | + |  |  |  | $\div$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| X | + | + |  | - |  | $\div$ | $\div$ | X | $\times$ | $\times$ | + | + |  |  | $\div$ |
| X | + | - | - | - | $\div$ | $\div$ | X | X | $\times$ | + | + |  |  |  | X |
| X | + | $\div$ | $\div$ | X | X | X | + | + |  |  |  | $\div$ |  | $\div$ | X |
| $\div$ | X |  | + |  |  |  | $\div$ | $\div$ | X | $\times$ | X | $\div$ | $\div$ | $\div$ | X |
| $\div$ | X |  | + | X | + | + | - | - | - | $\div$ | + | X | $\bigcirc$ | X | + |
|  | X | - | X | X | X | + | + | - | - | $\div$ | + | X | $x$ |  | + |
|  | $\div$ | + | X | X | X | + |  |  |  | X | - | X | $\times$ |  |  |
|  | $\div$ | + | X | $\div$ |  |  |  |  | $\div$ | X |  | + | - | + |  |
| $\pm$ |  | X | $\div$ | $\div$ |  |  |  | X | $\div$ | X |  | + | + | + |  |
| - |  | X | - | - |  |  |  |  | + | + | $\div$ |  | + |  | $\div$ |
| X |  | X |  |  | - | + | + | X | X | X | $\div$ |  |  |  | $\div$ |
| X | + | $\div$ |  |  | + | + | X | X | X | $\div$ | $\div$ |  |  |  | X |
|  | + | $\div$ |  |  | - | + | + | X | $\times$ | X | $\div$ | $\div$ |  | $\div$ | x |
| $\div$ | X | X | X | $\div$ | $\div$ |  | - |  | + | + | X | X | X | $\div$ | X |
| $\because$ |  |  |  |  |  |  |  |  | $\bullet$ | $\div$ |  |  |  |  | + |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 32

A section of this grid has been removed and its
symbols deleted. Can you replace the symbols so that the logic of the grid is restored?

## LEVEL 1



Can you work out which two sides on these cubes have identical numbers?

See answer 130


Can you find the number to complete the diagram?


71261613815
13211212971201231425
21518193820
13914519201815145
3815234518
12271512513151415
315311 - 1 - 12551195 2152191212121919195

## PUZZIE 35

The above is a substitution code which uses numbers in place of letters. The words that have been encoded are all types of soup from around the world.

See answer 119

LEVEL 1



## PUZZLE 37

Can you work out whether + or - should replace the question marks in this diagram so that both sections arrive at the same value?

See answer 136


The above triangles follow a pattern. Can you work it out and find the missing number?

See answer 97

## PUZZLE 39


[f hat fifllem (an hife honme town
千(1) fincee weogks wothonnt


In most places the water was several
feet deep and rising rapidly.
Everyone had been forced to live upstairs.
dust flisu his cufe walked irn

C(O)TGTDT
Situbition seutousfly

## Why not?

## LEVEL 1



See answer 110


## PUZZLE 41

Each symbol in this square represents a value. Can you work out how much the question mark is worth?

See answer 109


## PUZZLE 48

Two sides of these cubes contain the same letters. Can you spot them?

See answer 82


## PUZZLE 44

Can you find the letter which fits in
the missing segment?
See answer 16

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | M | M |  |  | W A | A |  |  |  |  |  |  |  |  |  |
|  |  |  | C M |  |  | KW | W |  |  |  |  |  |  |  |  |  |
|  | A | 仡 | K |  |  | Z A | A |  |  |  |  |  |  |  |  |  |
|  |  | E L |  |  |  | N | O |  |  |  |  |  |  |  |  |  |
|  | Q | Q V | V |  |  | T | E |  |  |  |  |  | E |  |  | M |
|  |  |  | V |  |  | CH | H |  |  |  |  |  |  |  |  |  |
|  |  |  | A |  |  | Q |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | WM | M |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | A | 鸸 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | K | W |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |
|  | 0 |  |  |  |  | A |  |  |  |  |  |  |  |  |  |  |
|  |  | UV | V |  | U | OP |  |  |  |  |  |  |  |  |  |  |
|  |  |  | W X |  |  | H |  |  |  |  |  |  | K |  |  |  |
|  |  |  | A |  |  | KU |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | A |  |  |  |  |  |  |  | A C |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Austen Chaucer

Chekhov
Dickens
Hemingway
Huxley
lbsen
Kafka
Flaubert Kipling
Goethe
Lawrence

Michener
Orwell
Proust
Tolstoi

## PUZZLE 45

In this grid are hidden the names of 18 famous authors. Can you detect them? You can go forward or in reverse, in horizontal, vertical and diagonal lines.


## PUZZLE 46

There is a logic to the patterns in these squares but one does not fit. Can you find the odd one out?

See answer 3


Can you work out which mathematical signs should replace the question marks in this diagram? You have a choice between - or + .


PUZZLE 48
Which letter replaces the question mark in this star?

## LEVEL 1



## PUZZLE 48

These tiles, when placed in right order, will form
a square in which each horizontal line is
identical with one vertical line.
Can you successfully form the square?
See answer 88


1LYAYID
GGEIR
EHETBNVOE
TZEBI
LHREMA
GRENAW
ZROTMA
RALGE
(Itallan)
(Norwegtan)
(Cerman)
(French)
(Austrian)
(German)
(Austrian)
(Engllsh)

## PUZZIE 51

Here are some anagrams of the names of famous composers. The nationality is given in brackets to help you.

See answer 123

## LEVEL 1



Can you work out which of these diagram is different from the others?

See answer 138

# 1326412824 ? <br> PUZZLE 58 

What comes next in this sequence?

See answer 63


Can you work out which of these symbols is the odd one out?

## LEVEL 1


41341214525242
532444135314431151
221464223443
3124424314531142
124243525114133124
53144121142431
63144322422221
44145134525224

## PUZZLE 55

This is a simple grid code. The encoded words are all names of famous painters.

See answer 115


Each symbol in the above square represents a number. Can you find out how much the question mark is worth?


## PUZZIE 57

Can you find the missing number that fits into the sector of the last wheel?

LEVEL 1


## PUZZLE 58

Which of these cubes cannot be made from this layout?

See answer 36


## PUZZLE 59

The diagram represent an old-fashioned telephone dial with letters as well as numbers. Below is a list of numbers representing 10 American towns or cities. Can you decode them?

See answer 48
A. 214417
B. 7217742
C. 1331135
D. 534918422
E. 53552165437
F. 65674152
G. 2276537
H. 1741571
I. 1351355173
J. 352315165437

LEVEL 1

| $\checkmark$ | $\sqrt{ }$ |  | $\bigcirc$ | - | $\sqrt{ }$ | $\checkmark$ | $\checkmark$ | () | $V$ | $\sqrt{ }$ | $\checkmark$ | (-) | () | $\checkmark$ | $\sqrt{ }$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| () | $\checkmark$ | $\checkmark$ | $\uparrow$ | - | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | - | $\sqrt{ }$ | $\sqrt{ }$ | $\checkmark$ | () | $\checkmark$ | $\checkmark$ |
| $\checkmark$ | () | $\checkmark$ | $\checkmark$ | - | - | $\sqrt{ }$ | $\checkmark$ | $\checkmark$ | () | $\sqrt{ }$ | $\sqrt{ }$ | $\checkmark$ | - | $\nu$ | $\checkmark$ |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\bigcirc$ | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | () | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | () | $\checkmark$ | - | $\bigcirc$ |
| $\sqrt{ }$ | $\checkmark$ | () | $\checkmark$ | $\checkmark$ | $\wedge$ | - | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | () | - | - | $\checkmark$ | $\checkmark$ | $\bigcirc$ |
| (2) | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | () | () | $\sqrt{ }$ | - | () | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 |
| () | - | $\checkmark$ | $\checkmark$ | $\bigcirc$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | () | $\checkmark$ | $\sqrt{ }$ | $\sqrt{ }$ | $\checkmark$ | - | $\checkmark$ | $\checkmark$ |
| $\checkmark$ | ¢ |  |  |  | () | $\checkmark$ | - | $\sqrt{ }$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | - | $\checkmark$ |
| $\sqrt{ }$ | $\checkmark$ |  |  |  | $\checkmark$ | - | $\checkmark$ | $\sqrt{ }$ | - | $\checkmark$ | $\checkmark$ | - | $\sqrt{ }$ | - | (1) |
| $\checkmark$ | $\checkmark$ |  |  |  | $\checkmark$ | - | $\checkmark$ | $\sqrt{ }$ | $\sqrt{ }$ | - | () | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ |
| () | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | $\downarrow$ | - | () | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | () | $\checkmark$ | $\checkmark$ |
| $\checkmark$ | - | $\checkmark$ | $\bigcirc$ | $\bigcirc$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | () | () | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | - | $\checkmark$ | $\checkmark$ |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | - | $\checkmark$ | $\checkmark$ | $\checkmark$ | () | - | $\sqrt{ }$ | - |  |
| $\checkmark$ | $\checkmark$ | $\bigcirc$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\bigcirc$ | () | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | - | $\checkmark$ | $\checkmark$ | 1 | $\bigcirc$ |
| (-) | $\checkmark$ | ; | - | $\cdots$ | $\checkmark$ | $\checkmark$ | () | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | - | - | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ |
|  | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | - | $\bigcirc$ | $\bigcirc$ | $\sqrt{ }$ | $\bigcirc$ | - | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZLEGO

The symbols in the above grid follow a pattern. Can you work it out and find the missing section?


## PUZZLE 61

The first two sets of scales are in balance.
Which symbol is needed to balance the third set?
See answer 5


Can you spot the odd figure out?

## LEVEL 1

MIYYME TYAMV HEEEEYITO XIMMAHE NAEOAYYAE YINET TPФAइE
HEANEETV MAEA тоөо
TEEYEAM HAzA TOEAYOYE

## Pumien 6



Whelsm, Brinat om comet

## Sep thever75



O

## PUZZLE 68

Can you find the missing symbol in the last triangle?

# LEVEL 1 


said the relieved parent.
said Johnny.

Johnny and his dad are not going diving, or taking a trip in a glass-bottomed boat. So how are they going under the sea without coming to any harm?

See answer 45

## LEVEL 1



## PUZZLE 68

MATCH POINTS
Can you correct this sum by moving four matches?
See answer 26


## PUZZLE 68

Each symbol in this square represents a value. Can you find out which number should replace the question mark?


PUZZLE 70

A certain logic has been used in making this diagram. Can you work out what the secret is and replace the question mark with a letter?


Two sides on these cubes contain the same numbers.
Can you spot them?
See answer 107


The mathematical signs in this diamond have been left out. Reading clockwise from the top can you work out what the question marks stand for?

|  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | A |  | E | F |  | O | Y |  | JU |  |  | 1 A |  | R 0 | O B | B E |  |  | S |
| C | D | U | S | T |  |  | H |  | 0 F |  |  |  |  | N | $B \mathrm{R}$ | R M | 0 | N |  |
| $\mathrm{K}$ | A |  | L | W | 0 | L |  |  | N Y |  | G | O R |  | E | S 0 | 0 | U | V | D |
| $k$ | M | G | E | N | E | W |  |  | L D |  | E | R W |  | 0 | L 0 | 0 | B | R | R |
| C | A | S | K | L | E | M | U |  | 0 |  | L |  |  |  |  | K K | E | G | O |
| P | C | M | W | V |  | W | E |  | A |  |  | L G |  | A | E | E | E | B | F |
| E | L | K | E | F | 0 | Z |  |  | A A |  | T H | H E |  | N A | A S | S | R | O | D |
|  | S | O | A | L |  | A |  |  |  |  | 0 | E |  | E | 0 | H 1 | L |  | E |
| R | T | A | S | E | G | F | A |  | A |  | T | O E |  | F | 1 | 1 S | T | R | R |
|  | 0 | M | C | R | U | 1 | S | E | E S |  | R | S E |  | 0 |  | E E | E | P | T |
|  | A | 0 | E | E | B | W |  |  |  |  |  |  |  |  | E L | L G |  |  | R |
|  | A | A | 0 | H | F | H | R |  |  |  | D | A B |  | D | C D | D 0 | A | T | E |
|  | A | F | G | S | V |  |  |  |  |  |  |  |  | A R | R S | S C |  |  | B |
| R | B | P | 0 | A | C | F |  |  |  |  |  |  |  |  | A Y | Y |  |  | O |
|  | N | O | Z | E | A |  |  |  |  |  |  |  |  | F 0 | 0 G | G | E |  | R |
|  | A | , |  |  |  |  |  |  |  |  | A | C L |  | E A | A H | H C |  |  | B |
|  | P | L | M | A | N | N | V |  | W X |  | 1 | E R |  | S F | F L | L A |  | 0 |  |
|  |  |  |  |  |  |  |  |  | S R |  |  | E L |  |  | A E | E S |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Jane Asher
Julia Roberts
Mel Gibson
Julie Christie
Meryl Streep
Paul Newman
Jane Fonda
Gene Wilder

Richard Gere

Michael Caine
Brooke Shields
Dustin Hoffman Tom Cruise

Emma Thompson
Robert Redford

## PUZZIE 74

Hidden in this grid are the names of 16 well-known actors. Can you spot them? You can move in horizontal, vertical and diagonal lines in a forward or backward direction.

See answer 61

## LEVEL 1

## JWQA LM JWCTWOVM UWVBXIZVIAAM UILMTMQVM XMZM TIKPIQAM KPIUXA MTGAMMA OIZM LM TGWV IZK LM BZQWUXPM UWVBU IZBZM

## PUZZIE 75

Here are the coded names of some places in Paris.
Can you discover their identity?

See answer 66


## PUZZLE 78

Which of the following faces, $\mathrm{A}, \mathrm{B}$ or C , would carry on the sequence above?

See answer 90


## PUZZLE 77

Can you work out which number should go into the last square?

## LEVEL 1



## PUZZLE 78

These tiles when placed in right order will form a square in which each horizontal line is identical with one vertical line.
Can you successfully form the square?

## LEVEL 1



Can you work out which symbols you need to balance the scale?

See answer 31


Can you work out what the blank clockface should look like?

## AJILU TREBORS RUBT NOYLEDRS CAKJ OHLCSIONN VDAID EVNIN IRLANYM RNOOME MERYJE NSORI URYEDA BPEHRNU NNOAIW DYRER

## PUZZE 81

The above are anagrams of the names of film stars. Both the first and second names are given.

See answer 122

LEVEL 1


See answer 121


Can you find the two sides on these cubes which contain exactly the same symbols?

See answer 134


Each symbol in the grid has a numerical value. Work out what those values are and replace the question mark with a number.


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | E |  | C | W |  |  | A |  |  |  | C M | M 0 |  |  |  |
|  | E |  |  | A | E |  |  | H |  |  |  |  |  |  |  |  |
|  | A | B |  | C | , |  |  |  |  |  |  |  |  |  |  |  |
|  | L | 0 | N | E | F | A |  | E |  |  |  | A E |  |  |  |  |
|  | N | A | D | E | A |  |  | H | A |  |  |  |  |  |  |  |
|  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | U | F |  |  | S |  |  | B |  |  |  |  |  |  |  |  |
|  | A | E |  | M |  |  |  |  |  |  |  |  |  |  |  |  |
|  | S |  | A | E | K | E |  | E | 0 |  |  | R |  |  |  |  |
|  | W |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 |  |  | Z | K |  |  | N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Bach | Dvorak | Mendelssohn | Pl2 |
| :---: | :---: | :---: | :---: |
| Beethoven | Grieg | Mozart | Hidden in this grid are 18 names of well-known |
| Borodin | Handel | Purcell | composers. Can you find them? You can move |
| Brahms | Haydn | Schubert | horizontally, vertically or diagonally and in a forward |
| Chopin | Lehar | Vivaldi | or backward directio |
| Debussy | Liszt | Wagner | See answer 68 |

## LEVEL 1



## PUZZLE 87

There are two sides on those cubes that contain exactly the same symbols. Can you spot them?

See answer 99


Can you find the letter to complete the star?


The letters and numbers in this wheel are related in some way. Can you find which letter should replace the question mark?

## LEVEL 1



# ? 74890 350267 124623 

## PUZZLE 81

Can you find the missing number which would complete the diagram?

See answer 34


## PUZZLE 82

Can you work out which number the question mark in the triangle stands for?


## LEVEL 1



See answer 116


Each symbol in this square represents a number.
Can you work out which number should replace the question mark?

In this diagram the mathematical signs ( + and - only) between each letter (which has a value equal to its position in the alphabet) have gone missing. Can you restore them in a way that you arrive at the letter in the middle of the diamond?


## PUZZLE 97

Can you find the two sides on these cubes that contain
exactly the same symbols?
See answer 125


## PUZZLE 88

This diagram was constructed according to a certain logic. Can you work out which number should replace the question mark?


PUZZLE 99

Can you work out whether + or - should replace the question mark to arrive at the letter in the middle of the circle?

|  |  |  |  |  |  |  |  |  |  |  |  | － |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | （－） | － |  |  |  |  |  |  |  |  |  | （3） | － | － |  |  |
|  | 災 | － | （） | － | － | 学 | 兄 |  |  |  |  | 棠 | ＇ | － |  |  |
|  | 㜽 | O | － | $\bigcirc$ | － | 光 | ＊ 6 | （ |  |  |  | ツ |  |  |  |  |
|  |  | $\bigcirc$ |  | 棠 | － | － | －- | － | － |  | － |  |  |  | 棠 | － |
|  |  | ¢ |  | シ | － | － | － － | （－） |  |  |  |  |  |  |  |  |
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|  |  | ツ |  | （） |  | － | － |  |  |  |  | O |  |  |  | － |
|  | － | （） |  | （－） | $\bigcirc$ |  |  |  |  |  | － | － |  |  |  |  |
|  |  | （－） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | － |  |  |  |  |  |  |  |  |  | － |  |  |  |  |
| $\odot$ |  | （－） |  |  |  |  |  |  | － |  |  | （－） |  |  |  |  |
|  |  | （2） |  |  |  |  |  |  |  |  |  | 世 |  |  |  |  |
|  |  | O | － |  |  | － | $\stackrel{\text { ® }}{ }$ | （－） | － |  |  | 災 |  |  |  |  |
|  |  | O |  |  |  | － | －$\odot$ |  |  |  |  |  |  |  |  | － |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## PUZZLE 100

The symbols in the above grid follow a pattern．Can you work it out and find the missing section？


## PUZZLE 101

Can you work out which two sides on these cubes contain the same symbols？

See answer 13


PUZZLE 102
Can you work out which is the odd ball out？

# ЧӨIYE $\Theta$ AMM YミAZAMHAミ TPФAE ムEETIEHYOE HALAEET NA 2 BME А $\Sigma \Gamma \Theta$ ВФГКІЕНӨАN ПАМАГЕ ПІГГА $\triangle$ IMM $\nabla$ ГІГГФТ HटOTXE YOANET ENBAEANEEY世AYE МIEHT ГГOTT PUZZLE 108 

The above are the coded names of places in London． Can you decode them？Only the vowels $\mathrm{A}, \mathrm{E}, \mathrm{I}$, and O and consonant B are correct．

LEVEL 1



PUZZLE 105
Can you replace the question marks with

+ or - so that both sections in this diagram add up to the same value.

See answer 126


O
?
306
80
756
D
B
L


K
E
C
A B
C
D

## PUZZLE 106

Can you work out which number fits into the first triangle?


## LEVEL 1




D


E

F


$E$

## PUZZLE 108

See answer 8

A. $\mathbf{5 1 5 1 3 2 7 7 2 6}$
F. 1153454
B. 3417359
G. 11418771
C. 75845872
H. 524158652
D. 75542574
I. 116124551
E. 815158826
J. 7116152575


Two sides of these cubes contain exactly the same numbers. Can you spot them?


In this diamond the four mathematical signs,,$+- x$ and $\div$ have been left out. Can you work out which sign fits between each pair of numbers to arrive at the number in the middle of the diagram?

IEVEL 1

| $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | $V$ | 1 | $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | 1 | 1 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | 1 | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ |
| $\sqrt{ }$ | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\ddagger$ | $\checkmark$ |
| $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\pm$ |  |
| $\varnothing$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\sqrt{ }$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\checkmark$ | + |
| $\pm$ | $\checkmark$ | $\checkmark$ | $\ddagger$ | 0 |  |  |  | $\checkmark$ | $\ddagger$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\pm$ |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\ddagger$ |  |  |  | $\checkmark$ | $\varnothing$ | 7 | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\varnothing$ |
| $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ |  |  |  | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\varnothing$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ |
| $\checkmark$ | $\ddagger$ | $\varnothing$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\varnothing$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\varnothing$ | $\sqrt{ }$ |
| 0 | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\uparrow$ | $\checkmark$ | $\varnothing$ | $\pm$ | $\ddagger$ | $\stackrel{\rightharpoonup}{ }$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\ddagger$ | $\pm$ | $\checkmark$ |
| $\ddagger$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | 士 | 0 | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\bigcirc$ | $\ddagger$ | $\varnothing$ | $\checkmark$ | $\ddagger$ |
| $\ddagger$ | $\checkmark$ | $\checkmark$ | 0 | 0 | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ |
| $\checkmark$ | $\sqrt{ }$ | $\checkmark$ | $\varnothing$ | 0 | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\varnothing$ | $\ddagger$ | $\uparrow$ | $\checkmark$ | $\checkmark$ | $\varnothing$ |
| $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | 7 | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | 7 | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ |
| $\checkmark$ | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\sqrt{ }$ | $\ddagger$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\varnothing$ | $\checkmark$ | $\ddagger$ | $\pm$ | $\nu$ |
| $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | 1 | $\varnothing$ | $\varnothing$ | $\ddagger$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 0 | $\varnothing$ | $\ddagger$ |  |


|  |  |  |
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## PUZZLE 118

The symbols in this grid follow a pattern. Can you work it out and complete the missing section?


## PUZZLE 114

Which of these cubes cannot be made from this layout?
See answer 65


## PUZZLE 115

Can you work out the number needed to complete the square?

## LEVEL 1



## PUZZLE 116

Can you find the mathematical signs which should replace the question marks in this diagram?

See answer 129


PUZZLE 117
Can you crack the logic of this diagram and replace the question mark with a number?

See answer 112
6

17
D

## PUZZLE 118

The four triangles are linked by a simple mathematical formula. Can you discover what it is and then find the odd one out?

See answer 2


## PUZZLE 119



## LEVEL 1

 line. Can you successfully form the square?

See answer 85


## PUZZLE 121

The diagram represents an old-fashioned telephone dial with letters as well as numbers. Below is a list of numbers representing 10 international capital cities. Can you use the diagram to decode them?

See answer 79
A. 1562531325
B. 661382
C. 455255
D. 126435
E. 75405
F. 157726215
G. 775143545
H. 1545515
I. 512632
J. 154161


## PUZZLE 122

Can you work out which sides on these cubes contain the same letters?

See answer 142


|  |  |  |  |  |  |  | E | F | E |  |  |  |  |  |  |  | X N |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F | A |  | E | F | F |  |  | E |  | W |  | C | R |  |  | M S | S | B | P | Х |
| A | L | L | L | 1 | 1 | H | C | R | U | H | C | C | T |  | P W | NO | 0 | I | J |  |
| M | 0 | N | E | D | D |  | L | O | X | E | G | G | N |  | X | F | A | L | A | E |
| A | X | 0 | N | N | A |  | C | E | A | L | E | E | S |  |  | E E | E T | F | A | E |
| G |  | A | A | 0 | 0 |  | E | A | B | C |  | A |  |  | A | A W | W |  |  | V |
| N | G | T |  | A |  | A |  | Y | D | E | N | N | V |  | K | $0 \cup$ | US | L | E | E |
| U | S | A | R | G | G |  | A | N | F | A | A | 0 S | E |  | L T | A | A | X | 0 | H |
|  | P | F | E |  |  |  |  | A | E | C | S | E |  |  | A | L N |  |  |  | C |
| E | F | A | H | , | S |  | A | E | H | E | A | A E | N |  | A | C H | H | A | E | A |
| S | A | E | C | E | E | A | F | E | A | E | 0 | N | S |  | 0 A | A | N | A |  | B |
|  | L | 0 |  |  |  |  |  | E | A |  |  |  |  |  |  |  |  |  |  | R |
| 0 | L |  | A | A A | A |  | A | A | F | E | G | G | NA |  | E R | R L | L L |  | M | 0 |
| A |  |  |  | 10 |  |  |  | A | F | G |  |  |  |  | N A |  |  |  | E | G |
| $\mathrm{M}$ | E | A |  | B | B | C | E | A | D | A |  | A | A |  |  | F 0 | 0 S | P | X | M |
|  | M |  |  |  |  |  | 0 | P | Q | U | R | R S |  |  | S A | A U |  |  | A | 0 |
|  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  | U B | B U |  | W | N |
| $\bigcirc$ | Z |  | A | A | E |  | A | 0 | Z | L |  | A E |  |  | L |  |  | R | A | Z |
|  |  |  |  |  |  |  |  |  | N |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Arafat | Gandhi |
| :--- | :--- |
| Mussolini | Ben Gurion |
| Gorbachev | Napoleon |
| Bismarck | Kennedy |
| Pinochet | Churchill |
| Lincoln | Stalin |
| De Gaulle | Mao Tse Tung |
| Thatcher | Franco |
| Mitterand | Yeltsin |

## PUZZLE 125

The above grid contains the names of 18 famous statesmen. Can you discover them?



## PUZZLE 123

Can you replace the question marks in this diagram with either X or $\div$ so that both sections arrive at the same value?

See answer 117


Can you work out which is the odd number out?
See answer 118


Can you work out which of these balls is the odd one out?

See answer 111


Can you find the missing letter in this star?

## LEVEL 1



PUZZLE 130

See answer 103



PUZZLE 132
Can you unravel the reasoning behind this diagram and find the correct letter to replace the question mark?


## PUZZLE 188

Can you work out which three sides of these cubes contain the same symbols?

See answer 102


## PUZZLE 134

Each of the symbols represents a value. Which symbols would you need to add to balance the last scale?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * | * | + | + | $+$ |  |  | $\bigcirc$ | $\bigcirc$ | * | * * | * * | * | $+$ | $+$ |  |
| - | - | - |  |  |  | + | + | * | * | * * | * |  | - |  |  |
|  | * | * | * | $+$ |  |  |  |  |  | - |  |  | * | * |  |
|  |  |  | + | + |  | * | * * |  |  |  |  |  |  |  |  |
|  |  |  | - | * | * * | + |  |  |  |  |  |  | 2 | * |  |
|  |  | + | + | * | * | * | * |  |  |  |  | $+$ | + | + |  |
| + |  |  | - | - | * | * | * * |  |  |  |  |  |  | $\bigcirc$ |  |
| $+$ | + | * | * | - |  |  |  |  |  |  |  | + | * | * |  |
|  | + |  |  |  |  |  | $\bigcirc$ | * | * | * | + + | + | + |  |  |
| * | * | * | $\bigcirc$ | $\bigcirc$ |  |  |  | + | + | + * | * | * | - | - |  |
| * | * | + | + | $+$ |  |  |  |  |  | * * | * * | * | + | + |  |
|  | - | $\bigcirc$ | - | + |  |  | + | * |  | * * | * | 0 | - |  |  |
|  | * | * | * | + | + |  |  |  |  |  |  |  | * | * |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


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## PUZZLE 135

The symbols in this grid behave in a predictable manner. When you have discovered their sequence it should be possible to fill in the blank segment.


C5 \& A5 D2 02 A5
C2 B4 A3 B3 A5cyct A5
E2C4C1B1B2A1C3B2
A4 C4 C1 C4 D2 A5 D3
D3 B4C3 AS A1 A4
D2 A1 A3 E3 A5 c1
C2 A1 B2C3D5D3

## PUZZLE 136

This time the code is a little more difficult. To help you we will give you a clue. The coded words are first names from around the world.

See answer 139


Can you work out the rule these triangles follow and find the missing number?

## LEVEL 1

10

8
1215
97
4
3
3
8
5
71
9

## PUZZLE 138

Can you work out which number should replace the question mark in the square?

See answer 67


## PUZZLE 139

Can you find the letter that should replace the question mark?
Can you find the odd one out of these symbols?
See answer 120
See answer 50

PUZZLE 140



## PUZZLE 141

Can you work out how many suns should replace the question mark, so that the scales balance?

See answer 73


Can you find the letter that would complete the star?


Can you work out which number should replace the question mark to follow the rules of the other wheels?

## LEVEL 1 - ANSWERS

## Answer 1

A. California
F. Oregon
B. Texas
G. Virginia
C. Nebraska
H. Florida
D. Alaska
I. Colorado
E. Idaho


## Answer 11

The pattern is a horizontal boustrophedon starting at the top left. The sequence is: 3 stars, 2 circles, 2 , squares, 3 crosses, 2 stars, 3 circles, 3 squares, 2 crosses, etc.

## Answer 12

E. It contains no curved lines.

## Answer 13

$\mathbf{B}$ and $\mathbf{H}$.

## Answer 14 <br> 4 moons. Sun $=9 ;$ Moon $=5 ;$ Cloud $=3$.

## Answer 15

E.

## Answer 16

Q. The letters are in the following alphabetical order: miss one, miss two, miss three, miss one etc.

## Answer 17

$4 \times 7 \div 2+8+9 \times 6 \div 3=62$.

## Answer 18

B. The value of each letter in the alphabet is two-thirds of the number in the opposite segment.

## Answer 19

10. Replace each letter by the value of its position in the alphabet. Start at $E$ and add 1, then 2, then 3, then 4 , then 5 , then 1 , then 2 etc. When you reach $26(Z)$, go back to $1(A)$.

## Answer 20

6.20. The minute hand advances 20 minutes each time, the hour hand goes back 2 hours each time.

## Answer 21

19. Starting from $D$, each number, or its alphabetic equivalent, advances three.

## Answer 22

A. Letters represent values based on their position in the alphabet. In each column, subtract the letter in the middle row from the letter in the top row and place the answer in the bottom row.

## Answer 23

33. Star $=8$; Tick $=12 ;$ Cross $=13$; Circle $=5$.

## Answer 24

2. The faces represent numbers, based on the elements in or around the face (excluding the head). Multiply the top number with the bottom right number and divide by the bottom left number. Place the answer in the middle.

## Answer 25

A. Pattern is: 2 by arch on top, 4 by arch at right, 3 by arch on bottom, 2 by arch at left. Start at the top left corner and move down the grid in verticai lines, reverting to the top when of the next column when you reach the bottom.


## Answer 27

The order is $2+3-, 2 \div 3 \times$. The puzzle goes in an inward clockwise spiral starting from the top left corner.

## Answer 28

$$
1 V \vee V 1+1
$$

## Answer 29

L. Add the value of the two letters in each outer segment, based on their position in the alphabet, and place the answer letter in the opposite inner segment.

## Answer 30

R. Multiply the value of the three earliest letters, based on their value in the alphabet, by 2 . The answer goes in the opposite tip. I (9) $\times 2=18$ (R).

## Answer 31

Five suns. Moons $=2 ;$ Cloud $=3 ;$ Sun $=4$.

## Answer 32

3. The numbers in each wheel add up to 30 .


Answer 33

## Answer 34

4. Imagine these are six-digit numbers. Add the bottom line to the middle line to get the top line.

## Answer 35

8. Starting at H, and working clockwise, subtract the value of second letter, based on its value in the alphabet, from the value of the first letter, and put sum in following corner.

Answer 36
C.

## Answer 37

Napoleon, Churchill, Truman, De Gaulle, Kennedy, Ho Chi Minh, Gandhi, Mandela.

## LEVEL 1 - ANSWERS

|  | $W$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | G | G O |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | L | M | M 0 |  |  | A |  |
|  | E |  |  |  |  | O X |  |  | NA | A |  | X F |  | X | - A | A N | N B |  |  |  |  |
| C | F |  |  |  |  |  |  |  | A |  |  |  | A | E | B | B L | L P |  |  |  |  |
|  | 1 | , |  |  |  | 々 |  |  | O |  |  | -1 | A | , | F | H | H |  |  |  |  |
|  | 0 | - |  |  |  |  |  |  |  |  |  | W | E | H | T | TE | E 0 |  |  | M | 0 |
|  |  | K |  |  |  | A $V$ |  |  |  |  |  | M | N | O | L | E | E |  | A |  | C |
|  |  |  |  |  |  | A M |  |  | L |  | D |  | C | K | K | E | N |  |  |  | A |
| A |  | S |  |  |  | EM |  |  | M | N |  | E | 1 | A | A | C | H-1 |  |  | - |  |
|  | O | O |  |  |  | A B |  |  | A |  |  | E |  | T | A | A 4 | - |  |  |  |  |
| $\mathrm{G}$ | T | O |  | A |  |  |  |  |  |  | K | Q |  | A | A | A | 5 |  |  |  |  |
| $0$ | N |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 E | E |  |  |  |  |
|  | N | O |  |  |  | M G |  |  |  |  |  |  | N | A | E | B | B |  |  | N |  |
|  | V |  |  |  |  |  |  |  |  |  |  |  | 1 | E | E | ${ }^{\prime}$ | C |  |  |  |  |
|  | W |  |  |  | E | C U | 0 |  | P |  |  | G | B |  | N | H | H |  | S | E |  |
|  | S |  |  |  | X H | H L |  |  |  | A |  |  |  |  | K | - | L |  |  |  |  |
|  | A |  |  |  |  |  |  |  |  |  |  |  | R | A | A | , ${ }^{\text {a }}$ | A E |  |  |  |  |
|  | U |  |  |  |  | - |  |  |  |  |  | Wy | A | L | E | E | I A | A W |  |  |  |
|  | A |  |  |  |  |  |  |  |  |  |  | C | A | E | W | WW | N E |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 | P | P P | P |  |  |  |  |

Answer 38
Austen
Hemingway Michener Chaucer
Huxley
Orwell
Chekov
Ibsen
Proust
Dickens
Kafka
Tolstoi
Flaubert
Kipling
Twain
Goethe
Lawrence
Zola

## Answer 39

21. Add all the numbers of each triangle together and place the sum in the middle of next triangle. When you reach D put the sum in $A$.

## Answer 40

The water in his garden was snow. He rolled several giant snowballs, built a pyramid and climbed onto the porch.

## Answer 41

She was planting her mother's shoe tree.

## Answer 42

Jim had moved from his home town years ago. He was watching the floods on the TV news. His wife had never liked the place anyway.

## Answer 43

The old man had given them time. He left each of them the equivalent of their annual salary so that they could have a year to do what they liked.

## Answer 44

This was a real bookworm, a bug that nibbles its way through books. Dr Gluck found him dining off his reference books.

## Answer 45

Johnny wants to go through the glass tunnel at an aquarium.

## Answer 46

Because three of them are on my wrist watch.

## LEVEL 1 - ANSWERS

## Answer 47

S. Look at opposite triangles. D is 4 th letter of the alphabet, $W$ is 4 th from the end. $F$ is 6th letter, while $U$ is 6 th from the end. $H$ is the 8 th letter, thus the missing letter is the one which is 8 th from the end.

Answer 48
A. Dallas
F. Portland
B. Seattle
G. Detroit
C. Chicago
D. Milwaukee
E. Minneapolis
H. Atlanta
I. Cincinnati
J. Indianapolis

## Answer 49

G. Add 2 elements to the body, take away 1, add 3, take away 2 , add 4 , take away 3 .

## Answer 50

B. In each column, divide the value of letter on the top row, based on its position in the alphabet, by the value of the second row letter to get the letter on the bottom row.


## Answer 52

15. Start at the top left corner and add that number to each corner in a clockwise direction, eg. $7+7=14+7$ $=21+7=28+7=35$.

## Answer 53

$\mathrm{F}+\mathrm{I}+\mathrm{E}-\mathrm{J}+\mathrm{N}-\mathrm{Y}+\mathrm{H}=\mathrm{I}$.

## Answer 54

Whitehall, Trafalgar Square, Kensington Gardens, Marble Arch, Buckingham Palace, Piccadilly Circus, Grosvenor Square, Thames Embankment, Waterloo Station, Kings Cross.

## Answer 55

72. Multiply all the numbers in the top sections to arrive at the number in the opposite bottom section. Multiply by 3 in the first circle, by 6 in the second one, and by 9 in the third circle.

## Answer 56

825. Multiply the value of the letters, based on their value in the alphabet, from each triangle and place the product in the next but one triangle to the right.

## Answer 57

$\mathbf{A}$ and $\mathbf{L}$. The numbers are $3,4,6$ and 9 .

## Answer 58

4. Multiply the two numbers in the outer circle of each spoke and place the product in the inner circle two spokes on in a clockwise direction.

## Answer 59

35. Star $=6$; Tick $=3$; Cross $=17$; Circle $=12$.


## Answer 60

Start at the top right corner and work in an inward spiral. The pattern is: two ticks, one heart, two faces, one tick, two hearts, one face, etc.

## Answer 61 - See page 74

## Answer 62

Arlington, Bethesda, Columbia Pike, Silver Spring, Mount Rainier, Chevy Chase, Georgetown, Anacostia. $\mathrm{U}=\mathrm{A}, \mathrm{Z}=\mathrm{F}, \mathrm{A}=\mathrm{G}, \mathrm{T}=\mathrm{Z}$, etc.

## Answer 63

16. Add 2 , subtract 1 , add 4 , subtract 2 , add 8 , subtract 4 , add 16 , subtract 8 .

## Answer 64

6.50. The minute hand moves back 5,10 and 15 minutes, while the hour hand moves forward 1,2 and 3 hours.

## LEVEL 1 - ANSWERS

|  |  |  |  |  |  |  |  |  |  |  | T V |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  | B E | ER |  |  |
| C | D | U | S |  |  |  |  |  |  | F F | FM | M A | A | N |  | $R$ R | M 0 | O | N |
|  | A |  |  |  | 0 |  |  |  | N Y | Y G | GO | 0 R | R | E | S | 0 | U | - |  |
|  |  |  |  |  |  |  |  |  |  |  | ER | R) $W$ | V |  |  | O Z | Z |  | ? |
|  | A |  |  |  |  |  |  |  | OT | T L | L B | B W | W |  |  | K K | K | EG |  |
|  |  |  |  |  |  |  | - |  | A 1 | 1 J | JL | L G | G A | A ${ }^{\text {H}}$ | H | ET | TV | E B |  |
|  |  |  |  |  |  |  | N | , A | A A | A T | H | H |  |  |  | S E | R | R 0 |  |
|  |  |  |  |  |  |  | M | A | A A | A 0 | 01 | 1 |  |  |  | H | L | L |  |
|  |  |  |  |  |  |  |  |  |  | NT | T0 | 0 |  |  | L | S | S T | 1 |  |
|  | 0 |  | C |  |  |  |  |  |  | 5 R | R S | S | 0 |  |  | F | Et | EP |  |
|  | A |  |  |  |  |  |  |  |  | M 0 | Q 1 | 1 A |  | N |  |  | GN | NO | D R |
|  |  |  | O | H |  |  |  |  | 51 | TO | DA | A B |  |  |  | - 0 | O A | A T |  |
|  | A |  |  |  |  |  |  |  |  | O 1 | 1 B | B K |  |  |  | S C | C E | E J |  |
|  | B |  |  |  |  |  |  |  |  | ZN | NA | A |  |  |  | Y | $1 \times$ | XQ |  |
|  |  |  |  |  |  |  |  |  |  | 0 | C | Y 1 |  |  |  | G H | E | E L |  |
|  | A |  |  |  | A | Z |  |  |  |  | AC | C |  |  |  | HC | C |  |  |
|  |  |  |  |  |  |  |  |  |  | X 1 | VE | E R |  |  |  | L A | A Z | Z 0 |  |
|  | C |  |  |  | F |  |  |  |  | BA | A E | E |  | L A | A | E S | S S | S 0 |  |
|  |  |  |  |  |  |  |  |  |  | SP | PIM |  |  |  |  |  | MIM | 7 |  |

Answer 61
Jane Asher Richard Gere Julia Roberts Michael Caine Mel Gibson Brooke Shields Julie Christie Dustin Hoffman Meryl Streep Tom Cruise Paul Newman Emma Thompson Jane Fonda Robert Redford Gene Wilder Jodie Foster

## Answer 65

D.

## Answer 66

Bois de Boulogne, Montparnasse, Madeleine, Pere Lachaise, Champs Elysees, Gare de Lyon, Arc de
Triomphe, Montmartre. The code here is: $\mathrm{I}=\mathrm{A}, \mathrm{Z}=\mathrm{R}$, $\mathrm{A}=\mathrm{S}, \mathrm{H}=\mathrm{Z}$, etc.

## Answer 67

8. Subtract the bottom left corner from the top left corner. Now subtract the bottom right corner from the top right corner, then subtract this answer from the first difference and put the number in the middle.

## Answer 69

21. Find the value of each letter based on its position in the alphabet, then add the values of the top and left corner together. Subtract the bottom right corner from this number and place the new value in the middle of the triangle.

## Answer 70

Q. Reading clockwise from the top, numbers correspond to the alphabetic position of the following letter.

## Answer 71

16. All the other numbers can be divided by 3 .

## Answer 72

M X O. The first line values of letters, based on their position in the alphabet, increase by 3 . The

|  |  |  |  |  |  |  |  |  |  |  |  |  |  | M |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| G | A | E |  | C |  | V | V |  |  |  | $\times$ |  |  |  | L |  |  |
| B | E | F |  |  |  | - | E |  |  | R | B U |  |  |  | K |  |  |
| 0 | A |  |  |  |  | A | A N |  |  | E | $\times$ T |  |  |  |  |  |  |
| R | L | 0 |  | E |  | A | A |  |  | T W | W K |  |  |  |  |  |  |
| 0 | N | A |  | E |  | 仡 | G |  |  | A 0 | H | E | EL |  |  |  |  |
|  | A | C |  | F |  | E | E |  |  | E | E A | A E |  |  |  |  |  |
| $\left\lvert\, \frac{11}{}\right.$ | U | F |  |  |  | Z | 2 T |  |  | E N | N | T |  |  |  |  |  |
| $\Delta$ | A | E |  |  |  | Z |  |  |  | E | E A |  |  |  |  |  |  |
| $Q$ |  |  |  |  |  |  | B |  |  | H |  |  |  |  |  |  |  |
| L |  | A |  |  |  | P | Q | R |  | H8 | A | A | E |  | C |  |  |
| A | C |  |  |  |  | 0 | 0 |  |  | Q | Q | R | W | W B | R |  |  |
|  | D | A |  |  |  | <k |  | 0 |  |  | , |  | - | N | U |  |  |
|  | 0 | V |  | Z |  |  | M | N | N | K | K | E | c | - | P |  |  |
|  | L | W |  | $\bigcirc$ |  |  | AD |  |  |  | U |  |  | ) |  |  |  |
|  | 0 | W | P | X | B | E | E | E | P | - | Q | - | A | A |  |  |  |
|  | A |  |  |  |  | C H | U |  |  | ER | R T |  | TO | 0 |  |  |  |
|  | B |  |  |  |  | L M | M N |  |  | A $C$ | C T |  |  |  |  |  |  |

Answer 68

Bach<br>Dvorak<br>Mendelssohn Beethoven<br>Grieg<br>Mozart<br>Borodin<br>Handel<br>Purcell<br>Brahms<br>Haydn<br>Schubert<br>Chopin<br>Lehar<br>Vivaldi<br>Debussy<br>Liszt<br>Wagner

second line values increase by 4 and the third line values increase by 5 .

## Answer 73

Six suns. Values are: Sun $=6 ;$ Moon $=7 ;$ Cloud $=9$.

## Answer 74

Start at top left corner and move in a vertical boustrophedon. The order is two hearts, one square root, two crossed circles, one cross, one heart, two square roots, one crossed circle, two crosses, etc.

## Answer 75

Little Italy, Greenwich Village, Manhattan, Times Square, Gramercy Park, Soho, Central Park, Chinatown.

## Answer 76

Go first along the top of the triangles, then along the bottoms. Each circle is filled one quarter more until the circle is complete, then reverts to one quarter filled.

## LEVEL 1 - ANSWERS

## Answer 78

40. Star $=7$; Tick $=8 ;$ Cross $=14 ;$ Circle $=11$.

## Answer 79

Copenhagen, Prague, London, Berlin, Tokyo, Amsterdam, Stockholm, Colombo, Madrid, Ankara.

## Answer 80

42. Take the number in the middle of the square, divide it by the number in the top left corner and place the new number in the bottom right corner. Again take the middle number, but now divide it by the number in the top right corner and place this new number in the bottom left corner.

## Answer 81

55. Add the two last numbers together.

## Answer 82

$\mathbf{E}$ and $\mathbf{O}$. The letters are $\mathrm{N}, \mathrm{O}, \mathrm{P}$ and X .

## Answer 83

1.00. The minute hand moves forward 20 minutes, the hour hand moves back 1 hour.

## Answer 84

B. Start from top left corner and move in a vertical boustrephedon. Order is: 4 smiley face, 1 sad face, 3 straight mouth, 2 face with hair, etc.

## Answer 85



## Answer 86

Z. Take the value of the letters, based on their position in the alphabet. A back 3 is $X$; $X$ forward 4 is $B ; B$ back 3 is $Y$; $Y$ forward 4 is $C$, etc.

## Answer 87

7. Add the three numbers at the corner of each triangle, multiply by 2 and place that number in the middle.


Answer 88

## Answer 89

Top half: $\div \mathbf{x}$; bottom half: $\mathbf{x} \mathbf{x}$.

## Answer 90

A. Add one new element to the face, then add one hair and an element to the face, then a hair, then a hair and an element to the face, repeat sequence.

## Answer 91

A. Based on the alphabet, starting at $B$ miss 2 letters, then 3 , then 4 , etc.

## Answer 92

A. Manchester F. Bangkok
B. Glasgow
G. Calcutta
C. Toulouse
H. Melbourne
D. Smolensk
I. Barcelona
E. Vancouver
J. Sacramento

## Answer 93 - See opposite page

## Answer 94

39. Star $=9$; Tick $=6$; Cross $=3$; Circle $=24$.

## Answer 95

Piccadilly, Copacabana, Guggenheim, Etoile, Whitehall, Madeleine, Central Park, Colosseum.

## LEVEL 1 - ANSWERS

|  |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F | A |  | E | F |  |  |  |  |  | W |  |  |  |  |  | M |  | 1 B |  |  |  |
| $A$ | L |  |  |  |  |  |  |  |  | H | C | E |  |  | W | NO |  |  |  |  |  |
| $\mathrm{M}$ | O | N | E |  | A |  | 0 | O | X | E | G |  |  |  | E | E F | A | A L |  |  |  |
| A | X |  | 11 |  |  |  | C | E | A | L | E |  | S |  | E | E | T | T F |  |  |  |
| G |  |  | A |  | N |  | A | A | B | C |  |  |  |  |  | A |  |  |  |  |  |
|  |  |  | , |  | A |  |  | $\overline{1}$ | D | E | N | , | L |  | 0 | 0 |  |  |  |  |  |
|  | S |  | 佰 |  |  |  |  |  |  |  | O |  | E |  |  | T |  |  |  |  |  |
|  | P |  | 佰 |  |  |  | A A | A |  | C | S | L | F | A | A |  |  |  |  |  |  |
|  |  |  | H |  |  |  |  |  |  | E |  |  |  |  |  | C |  |  |  |  |  |
|  |  |  | C |  |  |  |  |  | A | E | 0 |  |  |  |  | A |  | , A |  |  |  |
|  |  |  | + | A |  |  |  | A | A | D |  |  |  |  |  | ER |  |  |  |  |  |
| 0 |  |  | , | A |  |  |  |  |  | E | G |  | A |  |  |  |  |  |  |  |  |
|  |  |  | H |  | F |  | S A |  |  | G | P |  |  |  | A | A |  |  |  |  |  |
|  |  |  | T |  |  |  |  |  |  | A | D |  |  |  |  | F |  |  |  |  |  |
|  |  |  | X |  |  |  | 0 |  |  | U |  |  |  |  |  | A |  |  |  |  |  |
| W |  | A | E | X |  |  | O | , |  |  |  | (A) |  |  | U | U |  |  |  |  |  |
| 0 |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\|A\|$ |  | N | 0 |  |  |  | J |  | N |  |  |  | A | E | E | E A | - K | K |  |  |  |
|  |  | \|A | D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Answer 93
Arafat
Gandhi Mussolini Ben Gurion Gorbachev Napoleon Bismarck Kennedy Pinochet Churchill Lincoln
Stalin De Gaulle Maotse Tung Thatcher Franco Mitterand Yeltsin

## Answer 96

One arrow pointing up.

## Answer 97

14. Multiply the number on the left of the triangle by the number on top, take away the number on the right from this product and put this number in the middle.

## Answer 98

68. Square $=7 ; X=11 ; Z=3 ;$ Heart $=17$.

## Answer 99

$\mathbf{I}$ and $\mathbf{K}$. The figures are: matchstick man, triangle, half-moon, circle, stile.

## Answer 100

6.45. The minute hand moves back 15,30 and 45 minutes. The hour hand moves forward 3,6 and 9 hours.

## Answer 101

A diamond.

## Answer 102

$\mathbf{B}, \mathbf{F}$ and $\mathbf{N}$.

## Answer 103

F. The numbers made up of odd numbers are reversed.

## Answer 104

4. The number relates to the number of shapes in which the number is enclosed.

## LEVEL 1 - ANSWERS

## Answer 105

Chicago, Kansas, Houston, Birmingham, Detroit, Atlanta, Phoenix, Memphis.

## Answer 106

27. $2+3=5+4=9+5=14+6=20+7=27$.

## Answer 107

E and I.

## Answer 108

-     - $\mathbf{x}$.


## Answer 109

Elton John, Freddie Mercury, Lisa Stansfield, Sinead O'Connor, Meatloaf, Madonna, Michael Jackson, Rod Stewart. $\mathrm{A}=\mathrm{J}, \mathrm{Z}=\mathrm{I}$.

## Answer 110

D. The large letter turns $90^{\circ}$ clockwise, the small letter turns $180^{\circ}$.

## Answer 111

26. The digits in each of the other balls add up to 10 .

## Answer 112

2. Relates to the number of shapes which enclose each figure.

## Answer 113

Oregon, Nebraska, Nevada, Wisconsin, Florida, Virginia, Texas, Colorado.

## Answer 114

Chekhov, Brecht, Wilde, Beckett, Genet, Goethe, Ibsen, Racine.


Answer 115
Picasso, Rembrandt, Gaugin, Leonardo, Constable, Raphael, Van Gogh, Matisse. $A=1: 4$; $B=1: 3 ; C=1: 2 ; D=1: 1$; $E=2: 4$, etc.

## Answer 116

D. Letters with only curves stay the same, letters with curves and straight lines turn by $90^{\circ}$ and letters with only straight lines by $180^{\circ}$.

## Answer 117

Top half: $\mathbf{X} \div$; bottom half: $\div \mathbf{X}$.

## Answer 118

31. In all the other numbers the first digit is smaller than the second one.

## Answer 119

Gazpacho, Mulligatawny, Borscht, Minestrone, Chowder, Avgolemono, Cock-a-Leekie, Bouillabaisse. $A=1, Z=26$.

## Answer 120

The diamond. It is a closed shape.

## Answer 121

G. The internal patterns are reversed.

## Answer 122

15. All the other numbers have not got a divisor.

## Answer 123

Vivaldi, Beethoven, Grieg, Bizet, Mahler, Wagner, Mozart, Elgar.

## Answer 124

3. The numbers refer to the number of shapes which surround each digit.

## Answer 125

$\mathbf{K}$ and $\mathbf{0}$.

## Answer 126

Top half: + +; bottom half: + -

## Answer 127

F. The symbols are reflected over a vertical line.

## LEVEL 1 - ANSWERS

## Answer 128

Heathrow, Fort Worth, Ben Gurion, Las Palmas, O'Hare, Gatwick, Haneda, Shannon. $A=R ; B=S$, etc.

## Answer 129

$5 \times 4 \div 2+7=17$.

## Answer 130

D and $\mathbf{L}$.

## Answer 131

C. The letters represent values based on their position in the alphabet. They represent the number of straight-sided figures in which they are enclosed. The circle is a red herring.

## Answer 132

Julia Roberts, Burt Reynolds, Jack Nicholson, David Niven, Marilyn Monroe, Jeremy Irons, Audrey
Hepburn, Winona Ryder.

## Answer 133

K. Only the K has serifs.

## Answer 134

$\mathbf{C}$ and $\mathbf{K}$.

## Answer 135

Coq au vin, Paella, Dim sum, Sushi, Bratwurst, Hamburger, Spaghetti, Vindaloo. $A=20, B=21$.

## Answer 136

Top half: + -; bottom half: - -.

## Answer 137

C. It has an odd number of elements, the others all have an even number.

## Answer 138

C. In the others the small shapes added together result in the large shape.


## Answer 139

Robert, Pierre, Michelle,
Wolfgang, Dolores, Sinead, Rachel, Magnus.

## Answer 140

C. The symbol consists of 3 parts, the others only of 2 .

## Answer 141

Asimov, Balzac, Hemingway, Joyce, Maugham, Miller, Proust, Twain.

## Answer 142

$\mathbf{E}$ and $\mathbf{M}$.

## Answer 143

$M-E+B+D=N$.


GARGANTUA, the super-computer that controls communications and transport in most of the developed world, has gone haywire. Dr Ben Eischrank, the computer's inventor and guardian, was carrying out routine maintenance when a freak electric shock hit him. Now the world is plunged into chaos. Only you, Eischrank's trusted assistant, can restore the computer to normality. But there is a problem. The doctor was so insanely jealous of anyone touching his invention that he guarded it with a fiendishly intricate system of enigmas to prevent unauthorized access.

Can you penetrate this mental maze and save the world? The solution to each puzzle will tell which you should tackle next. When you have worked your way around the maze you will receive a code number which allows access to the computer. But hurry, for as you work a video screen on the laboratory wall shows the devastation which is sweeping the earth. Planes plunge from the sky, whole cities are blacked out, panic and devastation are spreading like the plague. Don't delay, begin now! It is vital that you write down the number of every puzzle you complete in the order in which you complete it.

## GARGANTUA

Five boys are going to visit relatives. Tom goes to Georgia, Sid goes to Hawaii, William goes to Dakota, and Orville goes to Louisiana.

Does George go to
A) Wyoming
B) California
C) Tennessee
D) Oregon
E) Alaska?

If you choose A, go to 22. If you choose $B$, go to 11 . If you choose $C$, go to 7 . If you choose $D$, go to 16 . If you choose E, go to 10 .

## PUZZLE 1

## See answer 1

This diagram represents a treasure map. The treasure is under the square marked with an asterisk. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The letters stand for points of the compass

## $\boldsymbol{N}=$ North; $\mathbf{S}=\mathbf{S o u t h} ; \mathbf{E}=$ East; $\mathbf{W}=$ West

and the numbers stand for the number of squares you must travel (e.g. a square marked 3SW would instruct you to move three squares South West). In order to find the treasure which square would you start on?

When you have the co-ordinate (one letter and one number) add 15
to the number and go to the corresponding puzzle.

| A | $B$ | c | D | $E$ |  | C | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2E | 2SE | 35 | 4E | 1S | 1SE | 4S | 1W |
| 1SE | 1N | 3S | 3W | 3W | 2 S | 1S | 2S |
| 4E | 4E | 4S | 3SW | 2S | 35 | 1NW | 1N |
| 3NE | 2SE | 3NE | 1NW | 2NW | 4W | 2W | 3NW |
| 4N | 15 | 2NW | 2W | 3SW | 2NE | 2SW | 1SW |
| 2S | 1SW | 2NW | 4N | 3E | 2SE | 2 S | 1S |
| 3E | * | 3E | 3N | 3W | 1S | 3N | 2NW |
| 3E | 3E | 2N | 3NW | 2N | 1NE | 4W | 3N |

???
???
117 ???
???
???
???
???

## PUZZLE 2

PUZZIE 3

See answer 3


Look at the grid. Can you discover the logic used in its construction? When you have done so you will be able to replace the question mark with a letter. If you choose B, go to 35 . If you choose $H$, go to 23 . If you choose J, go to 17 .

## PUZZLE 4

See answer 4


Find the odd one out. If you choose A , go to 14 . If you choose $B$, go to 17 . If you choose $C$, go to 20 . If you choose $D$, go to 15 .


Which number replaces the question mark? Add 24 and go to a new puzzle.

See answer 6

## GARGANTUA



PUZZLE 7

Which sector correctly fills the blank? If you choose A, go to 10 . If you choose B , go to 13 .

If you choose C , go to 34 .


Al's Diner has a unique menu. Al has his own special way of calculating his prices, Can you work out what it is and discover what he charges for Doner Kebab? Add the digits in that number, add 17 and go to the next puzzle.

See answer 8

The diagram on the right represents a treasure map. The treasure lies under the square with an asterisk. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The letters stand for points of the compass
N = North; S = South; E = East; W = West
and the numbers for the number of squares you must travel (e.g. a square marked $3 S W$ would instruct you to move three squares South West). Which is the starting square? When you have the co-ordinates 12 to the digit and go to the puzzle of that number.

| A | B | C | D | $E$ | $F$ | G | H |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 S | 1SE | 2W | 3 S | 45 | 2W | 1SE | 3W |
| 4E | 2E | 2SW | 2SW | 25 | 1 E | 15 | 4 S |
| 1NE | 45 | 35 | 2W | 2W | * | 45 | 2NW |
| 1SE | 4 S | 1NE | 3NE | 3SE | 3W | 1SE | 3N |
| 3N | 15 | 4N | 2NE | 3SE | 3 N | 2NW | 1SW |
| 4E | 2E | 2SW | 2NE | 1NE | 2NE | 2 S | 2SW |
| 2NE | 15E | 2NW | 4NE | 1W | 1N | 3N | 2W |
| 1N | 1NE | 2NW | 3N | 1N | 2 W | 3N | 3W |

## PUZZLE 9

## gargantua



Can you work out the logic of this diagram and replace the question mark with a number? When you have the correct number subtract 45 and go to the puzzle of that number.

See answer 10

| 10 | L | I | 12 |
| :---: | :---: | :---: | :---: |
| O |  |  | Z |
|  |  |  |  |
| M |  |  | B |
| $?$ | N | D | 10 |

## PUZZLE 11

Look at the grid and work out what should go in place of the question mark? Subtract 5 and go to the puzzle whose number you now have.


## gargantua



The shapes in this grid appear in a set order. Work out what that order is and fill in the last square. If you choose Diamond, go to 16. If you choose Circle, go to 5. If you choose Heart, go to 13. If you choose Triangle, go to 17 . If you choose Moon, go to 10 .

See answer
12


These clock faces follow a pattern. Can you work out what the second clock face should look like? Add the number indicated by the hour hand to the number indicated by the minute hand, add 12 to that sum and go to the puzzle indicated.

See answer 13

| 35 |  | 27 |  |  | 8 |  | 17 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## PUZZLE 14

Find a number to replace the question mark in Triangle D.
Add 6 to your answer and go to that puzzle.

## gargantua



## gargantua



## PUZZLE 17

This square follows a certain pattern. Can you work it out and replace the question mark with a letter? If you choose M , go to 16 . If you choose D , go to 30 . If you choose H , go to 27 . If you choose F , go to 2 .

See answer 17


## PUZZLE 18

In Maria's Bar the prices for drinks are calculated in an unusual way. Can you work it out and find out the price Maria charges for Whiskey? When you have the price discard the dollars and subtract 66 from the remaining cents.
You will then have the number of the next puzzle.


## PUZZLE 18

Can you crack the reasoning behind this spider's web and find the missing letter? If you choose $Z$, go to 31 . If you choose V , go to 23 . If you choose M , go to 13 .

See answer 18

Five boys travel abroad by ship. Andy boards the Elizabeth II, John travels on the Norway, Peter sails on the Tasmania, Nick chooses the Rover. Which ship does Larry board?
A) Enterprise
B) Sea Sprite
C) Panama
D) Neptune
E) Iolanthe

If you choose A, go to 19 .
If you choose $B$, go to 6 .
If you choose C, go to 32 .
If you choose $D$, go to 28 .
If you choose E , go to 5 .

## PUZZLE 20

See answer 20

## gargantua



## PUZZLE 21

Can you work out the logic of this square and find the missing number? When you have your answer subtract 163 and go to the puzzle of that number.

See answer 21


Which of the above diagrams does not follow the same rule as the others? If you choose $A$, go to 17 . If you choose $B$, go to 6 . If you choose $C$, go to 29 . If you choose D, go to 30 .


## PUZZLE 23

Each of the following girls has to work on a project about a famous statesman. Yvonne chooses Bismarck, Henrietta chooses Stalin, Trudie decides to work on Gandhi, Irene picks Roosevelt and Virginia chooses

Eisenhower. Who of the following does Natasha choose:
a) Churchill
b) Mao
c) Charlemagne
d) Reagan
e) Sadat

If you think the answer is A , go to 6 .
If $B$, go to 19 . If $C$, go to 31 .
If $D$, go to 34 . If $E$, go to 15 .

## gargantua



## PUZZLE 24

Can you find the number which should replace the question mark? When you have it add 2 and go to the next puzzle.

See answer 24


PUZZLE 25
Look at the diagram and replace the question mark with a letter. When you have the answer convert the
letter into a number by using its position in the alphabetical order ( $A=1, B=2 \ldots Z=26$ ), subtract five and then go to the puzzle of that number.


## PUZZLE 26

Can you find out which letter should replace the question mark in this spider's web? If your answer is K , go to 29 . If you choose U , go to 18 . If your answer is $G$, go to 7 .


## Pumiz27

Sep aturfer 27

## $\begin{array}{rr} & \text { ??? } \\ 115 & \text { ??? } \\ & \text { ??? } \\ & \text { ??? } \\ & \text { ??? }\end{array}$

## PUZZLE 28

Above are six 6-digit numbers each beginning with 115 . All the numbers are divisible by 173 with no remainder. Which digits do you need to complete the numbers? Add the last digits of all six numbers together, add 8 and go to the puzzle whose number you now have.


See answer 28

B

D



F
D


H E

## PUZZLE 28

Can you work out the logic behind the letters on these squares and find the one that should replace the question mark? If you choose F , go to 29. If you choose K , go to 16 . If you choose Y , go to 3 .

See answer 29


## PUZZLE 30

The question marks in this grid have a numerical significance. In fact they are all related to the same number. When you know what that number is, subtract 7 and go to the next puzzle.

## gargantua

## PUZZLE 31

This diagram represents a treasure map. The treasure lies under the square marked with an asterisk. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The letters stand for points of the compass

$$
N=\text { North, } S=\text { South, } E=\text { East, } W=\text { West }
$$

and the numbers stand for the number of squares you must travel (e.g. a square marked 3SW would instruct you to move three squares South West). In order to find the treasure which square would you start on?

| A | B | c | D | - | F | - | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2SE | 4E | 15 | 15 | 2W | 1SW | 1SE | 4W |
| 25 | 15w | 15E | 25W | 2SE | 4 S | 3 S | 2SW |
| 1 N | 2N | 35 | 4SE | 2SW | 2E | 1NW | 1NW |
| 2 E | * | 35 | 3NE | 35 | 4 S | 4 S | 3NW |
| 4 N | 4E | 1W | 2NW | 2 N | 1SE | 3W | 4 N |
| 2SE | 4 N | 2SE | 2W | 4 W | 2NE | 2NW | 25 |
| 3E | 15 | 1W | 3N | 2E | 4N | 4N | 2W |
| 1 N | 3NE | 2W | 3NW | 3NE | 2NE | 2NW | 4W | When you have the co-ordinate, add 10 to the digit and go to the next puzzle.

See answer 31


Can you work out what the matchstick man in the middle of the last triangle should look like? Take the number of elements in the matchstick man, add 4 and go to the next puzzle.

## gargantua



Above are six 6-digit numbers each beginning with the numbers 124. Each of the numbers is divisible by 149 with no remainder. Which digits do you need to complete the numbers? Add all the last digits together, subtract 16 and go to the next puzzle.


## PUZZLE 35

Can you work out the sequence of this snake and find the missing shape. If you choose Diamond, go to 12. If you choose Heart, go to 16 . If you choose Cross, go to 9 . If you choose Circle, go to 17. If you choose Arrow, go to 3.

## Answer 1

C. go to 7. G (the first letter of George) is the 7th letter from the beginning of the alphabet, $T$ (for Tennessee) is 7 th from the end.

## Answer 2

117096, 117232, 117368, 117504, 117640, 117776117912. Divide 117000 by 136 . Round the number up to the next full number, then multiply it by 136, then keep adding 136 to this number.
$6+2+8+4+0+6+2=28.28-2=26$.

## Answer 3

D5. Work backward from the $\boldsymbol{*}$ (Finish) square. $5+15=20$.

## Answer 4

B, go to 35 . The letters represent numbers based on their position in the alphabet. Those in the left column and multiplied by those in the right to give the letters in the middle.

## Answer 5

D, go to 15. The diagrams make "faces", D is upside down.

## Answer 6

1. The corresponding sections of the three wheels add up to $10.1+24=25$.

## Answer 7

A, go to 10 . The outer lines of one sector added to the inner lines of the sector opposite always add up to 9 .

Answer 8
$\$ 5.80$. VoweIs $=7$, Consonants $=5.5+8+17=30$.

## Answer 9

B1. Work back from the $\boldsymbol{*}$ (Finish) square. $1+12=13$.

## Answer 10

73. Starting at 1 add 5 , then 4 , then 3 , then 2 , then 1 , and repeat order. When you arrive at the highest number move on to the lowest number in the next wheel. $73-45=28$.

## Answer 11

9. Take the value of each letter, add their digits together and put number in space to the right. $9-5=4$.

## Answer 12

Circle, go to 5 . The basic sequence is Heart, Circle, Diamond, Triangle, Moon. Take the first symbol and put a line through it. The rest of the sequence then repeats in reverse order. Repeat this with each symbol in turn.

## Answer 13

4.30. The numbers are divided by 2 on each clock. $4+6+12=22$.

## Answer 14

28. Add individual digits of each number on edge of triangle and place their sum in the middle. $28+6=34$

## Answer 15

44. Multiply the diagonals of each square, then add both values together and put this number in the middle. $44-36=8$.

## Answer 16

30. Multiply the numbers at the bottom of each triangle, reverse the digits in the answer and add number on top of triangle. This number goes in the middle. $30-21=9$.

## Answer 17

H, go to 27. Start at top left hand corner, multiply number by value of following letter (based on its position in the alphabet), find new letter equivalent to that value and place in next space.

## Answer 18

$\mathbf{Z}$, go to 31. Subtract inner letter from outer, based on their position in the alphabet. The result of each calculation is 3 .

## Answer 19

$\mathbf{\$ 1 . 9 0}$. Vowel $=2$, consonant $=3$. Add all values together and multiply by $10.90-66=24$.

## GARGANTUA - ANSWERS

## Answer 20

C, go to 32. The initial letter of each ship is four places down the alphabetical order from the initial letter of the boy's name.

## Answer 21

165. $3+6=9,6+9=15,9+15=24,15+24=39,24+$ $39=63,39+63=102,102+63=165.165-163=2$.

## Answer 22

C, go to 29 . The line should cut off a triangle at one corner.

## Answer 23

B, go to 19. In each pair, the girl's initial and the statesman's is the same number of letters from either the beginning or the end of the alphabet. Natasha, 13 letters from the end, studies Mao, 13 from the beginning.

## Answer 24

4. Multiply the numbers on each left side and each right side of the square and divide the new value on the left by the new value on the right. $4+2=6$.

## Answer 25

$\mathbf{V}$, go to 17 . The letters are the initials of the planets in the solar system, followed by the days of the week. The order is a horizontal boustrophedon, starting from top left. Venus is missing, so $V$ ( 22 nd letter) $-5=17$.

## Answer 26

$\mathbf{U}$, go to 18 . Based on their position in the alphabet the inner letter is four places behind the outer letter.

## Answer 27

The code number to access Gargantua is 335 .

## Answer 28

115045, 115218, 115391, 115564, 115737, 115910. Divide 115000 by 173 and round the answer up to the nearest whole number. Now multiply this number by 173 and add 173 to it until you reach 115910 .
$5+8+1+4+7+0=25.25+8=33$.

## Answer 29

$\mathbf{Y}$, go to 3 . Based on the letters position in the alphabet and starting at the top left hand corner, in the first square add 2 to each value, in the second square
add 3 , in the third square add 4 and in the fourth square add 5 .

## Answer 30

$17+6=23$. All the digits from 1-9 are represented as both tens and units. 1 is never used as a ten and 7 is never used as a unit.

## Answer 31

D6. Work back from the $\boldsymbol{*}$ (Finish) square. $6+10=16$.

## Answer 32

He should have 10 elements. Add the elements of matchstick men on each side of triangle and place new figure in middle of following triangle. Put figure based on corners of last triangle in middle of first triangle. $10+4=14$.

## Answer 33

$\mathbf{E}$, go to 21 . The initial letter of the girls name is three places ahead in the alphabet to the initial letter in the groups name.

## Answer 34

124117, 124266 124415, 124564, 124713, 124862. Divide 124000 by 149 and round the answer up to the nearest whole number. Now multiply this number by 149 and add 149 to it until you reach 124862 .
$7+6+5+4+3+2=27.27-16=11$.

## Answer 35

Diamond, go to 12. The sequence is Heart, Cross, Circle, Arrow, Diamond. Repeat sequence omitting the first symbol, then add first symbol with extra line around. Repeat with each symbol.

## ORDER IS

| 1 | 7 | 10 | 28 | 33 | 21 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | 26 | 18 | 31 | 16 | 9 | 13 | 22 |  |
| 29 | 3 | 20 | 32 | 14 | 34 | 11 | 4 | 35 |
| 12 | 5 | 15 | 8 | 30 | 23 | 19 | 24 | 6 |
| 25 | 17 | 27 |  |  |  |  |  |  |

LEVEL 2


See answer 117


A


C


B


E

Can you find the odd shape out?
See answer 170


To which of these diagrams could you add a single straight line to match the conditions of the above figure?

See answer 145


The four main mathematical signs have been left out of this equation. Can you replace them?

A. Los Angeles

C. Houston

D. Kansas
B. Dallas


PUZZLE 6

Can you unravel the logic behind these domino pieces and fill in the missing letter?

See answer 122
All the suitcases are shown with their destinations. Which is the odd one out?

## See answer 60



## PUZZLE 8

Can you find the shape that should replace the question mark?

## LEVEL 2



See answer 173


Pick up one letter from each bulb in numerical order. You should find the names of five US states and two dummy letters. What are they?


## PUZZLE 11

Can you spot the cube that cannot be made from the layout above?

See answer 167


Can you work out which number the missing hand on clock 4 should point at?


## PUZZLE 13

Can you unravel the logic behind this square and find the missing letter?

## LEVEL 2

| $Z$ | $R$ | $T$ | $T$ | $U$ | $W$ | $W$ | $Z$ | $Z$ | S | Z | R | T | T | U | W |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | Z | Z | W | W | U | T | T | R | Z | S | Z | Z | W | W | U |
| Z | S | Z | R | T | T | U | W | W | Z | Z | S | Z | R | T | T |
| Z | W | W | U | T | T | R | Z | S | Z | Z | W | W | U | T | T |
| W | Z | Z | S | Z | R | T | T |  |  |  | Z | Z | S | Z | R |
| W | U | T | T | R | Z | S | Z |  |  |  | U | T | T | R | Z |
| U | W | W | Z | Z | S | Z | R |  |  |  | W | W | Z | Z | S |
| T | T | R | Z | S | Z | Z | W | W | U | T | T | R | Z | S | Z |
| T | T | U | W | W | Z | Z | S | Z | R | T | T | U | W | W | Z |
| R | Z | S | Z | Z | W | W | U | T | T | R | Z | S | Z | Z | W |
| Z | R | T | T | U | W | W | Z | Z | S | Z | R | T | T | U | W |
| S | Z | Z | W | W | U | T | T | R | Z | S | Z | Z | W | W | U |
| Z | S | Z | R | T | T | U | W | W | Z | Z | S | Z | R | T | T |
| Z | W | W | U | T | T | R | Z | S | Z | Z | W | W | U | T | T |
| W | Z | Z | S | Z | R | T | T | U | W | W | Z | Z | S | Z | R |
| W | U | T | T | R | Z | S | Z | Z | W | W | U | T | T | R | Z |


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## PUZZLE 14

Can you spot the pattern of this grid and complete the missing section?

LEVEL 2


Can you work out which diagram is the odd one out?
See answer 179

B. 3 hrs 15 min
C. 6 hrs 14 min

80


Each tractor has been working for the time shown.
The figure under the tractor shows how many tons of potatoes have been gathered. Clearly some strange logic is at work! How many tons has tractor A gathered?

See answer 90


E


B

F

as
C


G
is to


H

## PUZZLE 17

See answer 106


123


## PUZZLE 18

Can you work out the logic behind this square and complete the missing section?

See answer 93


## PUZZLE 20

Which of these layouts could be used to make the above cube?

See answer 149


See answer 178

## LEVEL 2



F


E


G

See answer 86


## PUZZLE 23

Can you find the odd shape out?

See answer 185


## PUZZLE 24

Can you unravel the code on this book to find its famous author?

No. 139


Silverstone

No. 101


Monaco

No. 98


Le Mans

No. 154


Monte Carlo

No.?


Indianapolis

PUZZLE 25

These cars are all racing at famous circuits. Can you work out the number of the car at Indianapolis?

## LEVEL 2



$$
A \text { is to } B \text { as } C \quad \text { is to }
$$



See answer 154


A


B


C


D


E


F


G

## PUZZLE 27

Can you work out which of the above dishes is
the odd one out?
See answer 35


PUZZLE 28

Which of the following layouts could be used to make the above cube?

See answer 181


Can you work out the logic behind this square and fill in the missing section?


The registration plates of all these cars conform to a certain logic. Can you work out the final plate?

## LEVEL 2



|  |  |  |
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## PUZZLE 31

Can you work out the reasoning behind this grid and complete the missing section?


Can you work out which is the odd diagram out?
See answer 153


## PUZZLE 38

Can you work out the reasoning behind this code and discover the author of this book?


This is another anagram in which we have given you only the letters you do NOT need. Find out the missing letters, change their order, and you will have the name of a giant. One letter is used twice. Extra clue: his father also appears in this book.

See answer 171

## LEVEL 2




A


B


C


D


E

## PUZZLE 35

Can you work out which of these symbols comes next in this sequence?

See answer 104


Each balloon has been sponsored by a famous newspaper. The number is somehow linked to the paper's name. What is the number of The Independent's balloon?


## PUZZIE 37

Can you work out the logic behind this square and find the missing number?

See answer 80

Can you replace the question mark with a number?
See answer 111



## PUZZLE 38

Can you work out which symbol is the odd one out?

See answer 155


LEVEL 2

|  | O | ( | ) | ( | $\Theta$ | $\bigcirc$ | ( | B | B | $\bigcirc$ | (3) | ( |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ | ( | () | $\bigcirc$ | (2) | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (2) | O | (-) | - | - | \% |  |
|  | $\bigcirc$ | - | $\bigcirc$ | - | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | - | - | ) | ¢ | - | $\bigcirc$ |  |
| (2) | (2) | () | ) | - | © | ) | ( $)$ | - | ) | - | ( | ) | O | ( |  |
| $\bigcirc$ | ( | $\odot$ | ¢ | - | $\bigcirc$ | -) | - | (-) | $\bigcirc$ | - | - | $\bigcirc$ | - | - |  |
|  | ¢ |  | () | $\bigcirc$ | C | (2) | ( | + | $\bigcirc$ | C | () | (-) | ) | ) |  |
|  | ( | $\bigcirc$ | $\bigcirc$ | - | $\bigcirc$ | - | - | - | - | - | - | - | $\odot$ | ( | - |
| $\bigcirc$ | ¢ | ค |  | - | $\bigcirc$ | - | $\bigcirc$ |  | - | $\bigcirc$ | (2) | - | $\bigcirc$ | $\odot$ |  |
|  | - | ¢ | - | - | - |  | 8 |  |  |  | (2) | $\bigcirc$ | - | (-) |  |
| $\bigcirc$ | $\bigcirc$ | (2) | - |  | $\bigcirc$ | (2) | ® |  |  |  | (2) | () | ) | $\bigcirc$ |  |
| (-) | ¢ | - | - | (-) | $\bigcirc$ | ¢ | $\bigcirc$ |  |  |  | C | $\odot$ | () | - |  |
|  | $\bigcirc$ | ¢ | C | () | - | - | $\bigcirc$ | ( | ( | - | C | © | - | - |  |
|  | $\bigcirc$ | $\bigcirc$ | - | - | $\bigcirc$ | ¢ | $\bigcirc$ | -) | © | © | -) | - | (-) | (2) |  |
|  | - | - | $\bigcirc$ | ( | - | - | (2) | (2) | - | - | $\bigcirc$ | C | $\bigcirc$ | - |  |
|  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | - | $\stackrel{\rightharpoonup}{2}$ | $\bigcirc$ | () |  | (2) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


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| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 41

This grid is made up according to a certain pattern. Can you work it out and fill in the missing section?


A is to


D
E F


PUZZLE 42
See answer 180


Can you work out what the next matchstick man in this series should look like?

## LEVEL 2



PUZZLE 44
Can you work out how many rectangles can be found in this diagram altogether?

See answer 56


## PUZZLE 46

Can you unravel the code on the back of the picture to find the name of its artist.


Can you work out how much each shape is worth?
See answer 45


Each car's number is related to its driver's name. Can you predict which car Pascal will drive?


## PUZZLE 48

Can you work out which of these cubes cannot be made
from the above layout?

See answer 165


## PUZZIE 50

Can you replace the question mark with a letter?

See answer 183

## LEVEL 2



Can you work out which shape is the odd one out?
See answer 169


## PUZZLE 52

Can you work out which of these dishes is the odd one out?


## PUZZLE 58

Can you work out, using the amounts of time specified, whether you have to go forward or backward to get from the top clock to the bottom clock?

See answer 187



## PUZZIE 54

## LEVEL 2

(2) (2) (2) (2)

|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 55

Can you work out which pattern this grid follows and complete the missing section?

See answer 164


Pick one letter from each cloud in order. You should be able to make the names of five composers.

See answer 41


Can you find the column that comes next in the sequence?

LEVEL 2


## PUZZLE 58

Can you work out what the next fish in this sequence should look like?

See answer 52


## PUZZLE 58

Can you work out which number should replace the question mark?

See answer 144


The weight of each suitcase is shown. Which is the odd one out?

See answer 67



A


B


C


D


E

## PUZZLE 61

Can you work out which of these squares would complete the above diagram?

See answer 160


How many squares can you find in this diagram altogether?


PUZZLE 63

In this diagram the four basic mathematical signs $(+,-, \mathrm{X}, \div)$ have been missed out. Can you replace the question marks?

## LEVEL 2



Can you work out which of these shapes would fit together with the shape above?

See answer 116


Can you work out the reasoning behind these squares and replace the question mark with a number?


## PUZZLE 66

Can you spot the cube that cannot be made from the
above layout?
See answer 163


PUZZLE 67

Can you find the number that should replace the question mark?


There is a logic to the registration plates of these cars. What is the plate on the last car?

## LEVEL 2



A
as
C
is to


D

$F$


E


## PUZZLE 69



Can you work out the reasoning behind this square and replace the question mark with the correct shape?

See answer 36


Take one letter from each bulb in order. You should be able to make five five-letter words related to food.

## LEVEL 2



Can you work out which diagram would continue the series?

See answer 161


The diagram gives the speed, number and distance covered for each balloon. Can you work out the distance for A ?


## PUZZLE 75

Can you work out which of these symbols follows the sequence?

See answer 105


Can you unravel this code and find the painter of this picture?


Can you work out which number should replace the question mark in this diagram?

| 2 | 2 | 3 | 1 | 1 | 7 | 1 | 4 | 5 | 5 | 2 | 2 | 3 | 1 | 1 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | 3 | 1 | 1 | 7 | 1 | 4 | 5 | 5 | 2 | 2 | 3 | 1 | 1 | 7 | 1 |
| 5 | 2 | 3 | 1 | 1 | 7 | 1 | 4 | 5 | 5 | 2 | 2 | 3 | 1 | 1 | 4 |
| 4 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 7 | 1 | 4 | 5 | 5 | 2 | 7 | 5 |
| 1 | 5 | 2 | 5 | 1 | 4 | 5 | 5 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 5 |
| 7 | 5 | 5 | 5 | 7 | 2 | 2 | 3 | 1 | 1 | 7 | 1 | 7 | 3 | 4 | 2 |
| 1 | 4 | 5 | 4 | 1 | 5 | 3 | 1 | 1 | 7 | 1 | 4 | 1 | 1 | 5 | 2 |
| 1 | 1 | 4 | 1 | 1 | 5 | 2 | 3 | 1 | 1 | 4 | 5 | 4 | 1 | 5 | 3 |
| 3 | 7 | 1 | 7 | 3 | 4 | 2 | 2 | 2 | 7 | 5 | 5 | 5 | 7 | 2 | 1 |
| 2 | 1 | 7 | 1 | 2 | 1 | 5 | 5 | 4 | 1 | 5 | 2 | 5 | 1 | 2 | 1 |
| 2 | 1 | 1 | 1 | 2 | 7 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 3 | 7 |
| 5 | 3 | 1 | 3 | 5 | 5 | 4 | 1 | 7 | 1 | 1 | 3 | 2 | 5 | 1 | 1 |
| 5 | 2 | 3 | 2 | 2 | 5 | 5 | 4 | 1 | 7 | 1 | 1 | 3 | 5 | 1 | 4 |
|  |  |  | 2 | 5 | 5 | 4 | 1 | 7 | 1 | 1 | 3 | 2 | 2 | 7 | 5 |
|  |  |  | 4 | 1 | 7 | 1 | 1 | 3 | 2 | 2 | 5 | 5 | 4 | 1 | 5 |
|  |  |  | 3 | 2 | 2 | 5 | 5 | 4 | 1 | 7 | 1 | 1 | 3 | 2 | 2 |

Can you work out the reasoning behind this grid and complete the missing section?


## PUZZLE 78

Which of these cubes can be made from the above layout?

See answer 128


## PUZZLE 80

Can you work out which of these musical terms
is the odd one out?
See answer 20

## LEVEL 2



Take one letter from each cloud in order.
You should be able to find five words from around the world that are in common use.

See answer 50


Can you work out the reasoning behind this wheel and replace the question mark with a number?


132


See answer 156


## LEVEL 2



## PUZZLE 86

Can you work out what the next grid in this sequence should look like?

See answer 54


## PUZZLE 87

Can you work out what the missing section in the last wheel should look like?


See answer 94


## PUZZLE 89

Can you find the letter which completes this diagram?

No. 4 15kg

No. 7 18kg



No. 8 19kg
No. ? 24kg

## PUZZLE 80

Each horse carries a weight handicap. Can you work out the number of the final horse?

| 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 | 2 | 3 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | 3 | 2 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 |
| 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 | 2 | 3 |
| 3 | 2 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 | 4 |
| 3 | 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 | 2 |
| 2 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 | 4 | 3 |
| 3 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 |
| 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 | 4 | 3 | 2 |
| 2 | 3 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 |
| 4 | 4 | 3 | 2 | 2 | 1 | 4 |  |  |  | 1 | 4 | 4 | 3 | 2 | 2 |
| 1 | 2 | 3 | 3 | 4 | 1 | 2 |  |  |  | 4 | 1 | 2 | 3 | 3 | 4 |
| 4 | 3 | 2 | 2 | 1 | 4 | 3 |  |  |  | 4 | 4 | 3 | 2 | 2 | 1 |
| 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 | 3 |
| 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 |
| 4 | 4 | 1 | 2 | 3 | 3 | 4 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 2 | 3 |
| 2 | 2 | 1 | 4 | 3 | 3 | 2 | 1 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 3 |


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## PUZZLE 91

Can you work out the reasoning behind this grid and complete the missing section?


Pick a letter from each bulb in turn and make the names of five novelists.

See answer 30

I

C
N
V
V
F
B
C
?
D
G
L
A
A
B
C
D

## PUZZLE 95

Can you find the letter that should replace the question mark?


Can you work out the reasoning behind this code and find the artist of this painting?



## PUZZLE 98

Can you work out which of these cubes cannot be made from the this layout?

See answer 118


## PUZZLE 89

Can you find the shape that would continue the series above?
See answer 150


Take one letter from each cloud in order.
You should be able to make the names of five scientists.
See answer 58


## PUZZLE 101

Can you work out which letter should replace the question mark in this square?

A


B
START 3.20


FINISH 1.09

START 5.24


D FINISH 2.11 E
START 7.35
START 6.28


FINISH?


FINISH 4.22

## PUZZLE 102

All these bikes took part in an overnight race. Something really weird happened! The start and finish times of the bike became mathematically linked. If you can discover the link you should be able to decide when bike D finished.


## PUZZLE 108

Can you work out the reasoning behind these squares and find the missing number?

See answer 32


To which of these diagrams could you add a circle to match the conditions of the above figure?

## LEVEL 2



Which of these shapes fits the above to complete the polygon?

See answer 174



## PUZZLE 107

Can you replace the question mark with a number?


## PUZZLE 108

Can you work out which of these squares is the odd one out?

See answer 103


PUZZLE 109

Can you find the odd shape out?
See answer 108

143

| $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $@$ | $@$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $*$ | $@$ | $@$ | $\%$ | $*$ | $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\&$ | $\&$ |
| $\%$ | $\%$ | $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\&$ | $\&$ | $\%$ | $*$ | $\%$ |
| $@$ | $*$ | $*$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $\%$ | $*$ |
| $@$ | $\%$ | $\%$ | $\%$ | $@$ |  |  |  | $\&$ | $\&$ | $\%$ | $*$ | $\%$ | $@$ | $@$ | $\%$ |
| $\%$ | $\&$ | $@$ | $\&$ | $\%$ |  |  |  | $\&$ | $\&$ | $\%$ | $*$ | $@$ | $@$ | $@$ | $@$ |
| $*$ | $\&$ | $@$ | $\&$ | $*$ |  |  |  | $*$ | $\&$ | $\&$ | $\%$ | $@$ | $\%$ | $\%$ | $@$ |
| $\%$ | $*$ | $\%$ | $*$ | $\%$ | $\%$ | $@$ | $@$ | $@$ | $\%$ | $\%$ | $@$ | $\%$ | $*$ | $*$ | $\%$ |
| $\&$ | $\%$ | $*$ | $\%$ | $\&$ | $*$ | $\%$ | $\%$ | $*$ | $*$ | $*$ | $@$ | $*$ | $\&$ | $\&$ | $*$ |
| $\&$ | $@$ | $\%$ | $@$ | $\&$ | $\%$ | $*$ | $\%$ | $\&$ | $\&$ | $\%$ | $\%$ | $\&$ | $\&$ | $\&$ | $\&$ |
| $*$ | $@$ | $\&$ | $@$ | $*$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ | $*$ | $\&$ | $\%$ | $\%$ | $\&$ |
| $\%$ | $\%$ | $\&$ | $\%$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\%$ | $\&$ | $\&$ | $\%$ | $*$ | $*$ | $\%$ |
|  | $*$ | $*$ | $*$ | $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\%$ | $\%$ | $*$ |
| $@$ | $\%$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ | $@$ | $\%$ |
| $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ |
| $*$ | $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ | $@$ | $\%$ | $*$ | $\%$ | $\&$ | $\&$ | $*$ | $\%$ | $@$ |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 110

Can you work out the pattern sequence and fill in the missing section?


PUZZLE 111
Can you work out which number should replace the question mark?

See answer 152

12
31
23
42
34
53
45
?

## PUZZLE 112

Can you find the number that comes next in this series?

See answer 65

FROGGIT


95

WINTERBOTTOM


146

BLEASDALE


111

## LEVEL 2



PUZZLE 114

Which cube can be made from this layout?
See answer 114


## PUZZLE 115

Here is another diagam in which we have supplied the letters you do NOT need to complete the puzzle! When you have decided which letters are missing rearrange them and you will find a city named after a US President. Beware! One letter is used twice.


Can you find work out which number should replace the question mark?
9

4
2
6
5

10
4

6
?

$11 \quad 12$

## PUZZLE 117

Can you work out the reasoning behind these squares and find the number that should replace the question mark?

See answer 110


Can you find the odd shape out?
See answer 147

## LEVEL 2





E


F
$C$ is to


G
H
PUZZLE 118

See answer 146


Pick one letter from each bulb in order. You can make the
names of five artists.


## PUZZLE 121

Can you find the odd diagram out?
See answer 124


## PUZZLE 122

Can you work out the reasoning behind this square and replace the question mark with a number?


The first interplanetary travellers are about to set off. Whose luggage is going to be put off at the wrong stop?

| A | R | C | D | E | T | R | I | O | M | P | A | R | C | D | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R | R | R | T | E | D | C | R | A | H | P | M | O | I | R | T |
| C | D | C | T | R | I | O | M | P | H | E | H | P | M | O | I |
| D | E | T | D | E | T | R | I | O | M | A | R | C | D | E | A |
| H | P | M | O | I | R | T | E | D | P | M | O | I | R | T | R |
| A | R | C | D | E | T | R | I | E | O | M | P | H | E | A | R |
| C | R | A | E | H | P | M | T | E | D | I | R | T | E | D | C |
| D | E | T | R | I | O | R | M | P | H | C | E | A | R | C | D |
| C | D | T | R | I | I | O | M | P | H | E | R | M | I | I | E |
| R | A | E | H | O | P | M | O | I | R | T | P | A | R | R | T |
| O | M | P | M | H | E | A | R | I | D | E | H | O | T | T | R |
| I | R | P | T | E | D | C | R | A | E | H | E | I | E | E | I |
| R | H | C | D | E | T | R | I | O | M | P | A | R | D | D | O |
| E | A | H | P | M | O | I | R | T | E | D | R | T | A | C | M |
| D | E | T | R | I | O | M | P | H | A | R | C | E | R | R | P |
| C | R | A | H | P | M | O | I | R | T | E | D | D | C | A | H |

## PUZZLE 124

The phrase ARC DE TRIOMPHE is concealed somewhere in this grid. It occurs in its entirety only once. It is written in straight lines with only one change of direction. Can you find it?


Can you work out what the next wheel in this sequence should look like?

## See answer 55



Which of these columns would continue the sequence above?

LEVEL 2


## PUZZLE 127

Which of the names in the right column can be added to the left one? This may seem confusing initially but, despite appearances, it is not an American puzzle and you will find a capital solution.

See answer 139


W
$E$

SOLAR SPRINTER


SKY FLY


SUPER SAVAGE

STEEL SABER

## PUZZLE 128

Can you work out which symbol is the odd one out?

## PUZZLE 128

All these horses are ready for the off. Which is the odd one out?


## PUZZLE 130

Can you find the odd diagram out?
See answer 142


## PUZZLE 181

Can you work out which shape should replace the question mark?

See answer 22

LEVEI. 2

4
7

9
3
6
B
C
5

D
6
93

## PUZZLE 132

Can you work out the logic behind these triangles and replace the question mark with a number?

See answer 100



Can you work out which number should replace the question mark?

See answer 13


Can you work out which of these diagrams would continue the series?

See answer 141


## PUZZLE 188

Which of these shapes should replace the
question mark?
See answer 29

## LEVEL 2



## PUZZLE 137

## PUZZLE 138

Can you unravel the code on this book to find its famous author?

## See answer 1

Can you unravel the logic behind this square and find the missing letter?

See answer 81


No. 220
Denver
$B$


No. 47
Kansas City


No. 25
Galveston


No. 363
Lafayette


No. 428
a) Portland
b) Chicago
c) Nashville
d) Buffalo

The number of each train and its destination are in some way related. Can you work out where train No. 428 is bound for?


Can you work out which of these symbols follows
the sequence above?
See answer 113


Take one letter from each of these bulbs in order.
You will be able to make the names of five poets.

## LEVEL 2



## PUZZLE 142

Can you work out the reasoning behind these triangles and replace the question mark with a number?

## See answer 34


$34689121516 ?$

## PUZZLE 143

Can you find the number that comes next in this series?


Arrives 3.08

No. ?


Arrives 2.30

## PUZZLE 144

Five cyclists are taking part in a race. The number of each rider and its arrival time are in some way related. Can you work out the number of the rider who arrives at 2.30?


Can you work out, using the amounts of time specified, whether you have to go forward or backward to get from the time on the top clock to the bottom clock?

See answer 162


## PUZZLE 146

Can you work out which letter should replace the question mark in this square?


The following clock faces are in some way related. Can you work out what the time on clock No. 3 should be?

| S | T | A | T | U | E | O | R | T | S | T | A | T | U | E | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | R | E | B | I | L | F | O | E | U | T | A | T | A | T | D |
| L | S | T | A | T | U | L | I | B | E | R | T | O | F | F | A |
| I | L | I | B | E | R | T | E | L | I | B | E | R | L | O | T |
| B | O | F | L | I | B | U | E | O | S | T | A | I | F | S | U |
| E | T | S | T | A | T | U | E | O | F | S | B | T | S | O | F |
| R | O | F | L | A | S | U | F | T | L | E | T | T | A | S | L |
| T | I | C | T | B | T | L | R | I | T | Y | A | S | T | T | I |
| Y | U | S | E | A | I | S | B | Y | T | T | A | T | U | A | B |
| E | L | I | T | B | B | E | E | S | T | A | T | U | E | T | E |
| R | T | S | E | Y | R | Y | T | R | E | B | L | F | O | U | R |
| S | T | R | A | T | U | S | O | F | L | I | B | E | R | T | Y |
| L | T | I | S | B | E | T | O | F | S | T | A | T | U | E | O |
| Y | T | A | T | U | E | A | F | O | T | R | E | B | I | L | F |
| E | B | I | L | F | O | T | S | T | A | T | U | E | O | E | L |
| R | T | S | T | A | T | U | T | S | F | O | T | R | E | B | I |

## PUZZIE 148

The phrase STATUE OF LIBERTY is concealed in this grid. It occurs only once in its entirety. Can you find it? It is written in straight lines with only one change of direction.


## PUZZLE 148

Can you work out which number should replace the question mark in this square?


Can you work out which diagram is the odd one out?

See answer 140
See answer 138


4372


6356
D. No. 14 (454)


3786
E. No. 3 (1262)


9870
PUZZLE 151

Each tractor gathers potatoes over a certain acreage (shown in brackets). The weight of potatoes in kilos is shown under each tractor. There is a relationship between the number of the tractor, the acreage and the weight gathered. What weight should tractor B show?

LEVEL 2


D



E


C

See answer 6

## LEVEL 2



A



PUZZLE 158

Can you work out which of these cubes is not the same as the others?

See answer 2

## PUZZLE 154

Can you unravel the logic behind these squares and find
the missing number?

## LEVEL 2



Can you work out what the next flower in this series should look like?

See answer 95


Can you find the missing number in this square?
See answer 10


No. 11


Takes 1 hr 52
No. 14


Takes 2 hr 27

No.?


Takes 2 hr 33

## PUZZLE 157

Five cyclists are taking part in a race. The number of each rider and his cycling time are related to each other. Can you work out the number of the last cyclist?

## LEVEL 2



Can you work out which of these symbols would continue the series?

See answer 134
4
5
8
43
79
4
2

## PUZZLE 158

Which of these squares does not follow the same rule as the others?

LEVEL 2

| S | E | R | E | P | E | N | S | T | I | N | E | R | E | S | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | E | S | E | N | R | P | E | N | S | E | R | P | E | N | T |
| R | S | R | S | E | I | S | R | T | E | R | P | E | N | T | I |
| P | E | P | P | S | E | T | P | I | N | E | N | E | S | S | S |
| E | R | E | S | N | T | N | N | N | E | R | I | N | N | N | E |
| N | P | N | E | R | T | E | T | E | P | N | S | E | E | I | R |
| T | E | T | R | P | S | I | I | T | P | T | P | T | R | T | P |
| N | N | I | P | E | E | N | N | T | R | R | S | E | P | N | E |
| E | T | N | E | N | T | E | E | E | E | S | E | T | E | E | N |
| I | N | E | N | T | R | S | E | S | R | E | T | S | N | P | T |
| S | E | R | T | P | E | N | T | I | N | E | T | S | T | R | I |
| S | E | R | N | P | E | N | T | I | N | E | E | N | I | E | T |
| E | S | R | E | I | S | E | R | P | E | N | T | I | N | S | E |
| S | E | T | E | N | N | I | T | N | E | P | R | E | S | T | E |
| R | S | E | N | E | I | T | N | I | P | R | E | S | E | S | T |
| S | E | R | P | E | N | S | N | I | T | N | E | P | R | E | S |

## PUZZLE 160

The word SERPENTINE is hidden somewhere in this grid. It occurs in its entirety only once. Can you find it? It may be spelt in any direction but is all in one line.


Pick one letter from each cloud in order. You should be able to make the names of five Roman emperors.

See answer 63


## PUZZLE 162

Can you work out how many triangles there are in this diagram altogether?


The number of the quay and the ship's destination are in some way related. Can you work out which harbour the ship on Quay 26 is bound for?

## LEVEL 2



See answer 112


## PUZZLE 165

Can you find the number to replace the question mark?


D


B


E

## PUZZLE 166

Can you find the odd figure out?

## LEVEL 2



Can you find the shape that should replace the question mark in the last circle?

See answer 8


B


Minneapolis Portland San Diego

E


Clearwater —? -
Indianapolis
a) Baltimore
b) Fresno

PUZZLE 188
c) Boston
d) Philadelphia

These trains pass three American towns on their route. Can you find the missing town of the last train?

LEVEL 2

| + | + | - | - | - | $\div$ | $\div$ | X | X | X | + | + | - | - | - | $\div$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| X | + | + | - | - | - | $\div$ | $\div$ | X | X | X | + | + | - | - | $\div$ |
| X | + | - | - | - | $\div$ | $\div$ | X | X | X | + | + | - | - | - | X |
| X | + | $\div$ | $\div$ | X | X | X | + | + | - | - | - | $\div$ | - | $\div$ | X |
| $\div$ | X | - | + | - | - | - | $\div$ | $\div$ | X | X | X | $\div$ | $\div$ | $\div$ | X |
| $\div$ | X | - | + | X | + | + | - | - | - | $\div$ | + | X | $\div$ | X | + |
| -X | - | X | X | X | + | + | - | - | $\div$ | + | X | X | X | + |  |
| - | $\div$ | + | X | X | X | + | - | - | - | X | - | X | X | X | - |
| - | $\div$ | + | X | $\div$ |  |  |  | - | $\div$ | X | - | + | X | + | - |
| + | - | X | $\div$ | $\div$ |  |  |  | X | $\div$ | X | - | + | + | + | - |
| + | - | X | $\div$ | - |  |  |  | - | + | + | $\div$ | - | + | - | $\div$ |
| X | - | X | - | - | - | + | + | X | X | X | $\div$ | - | - | - | $\div$ |
| X | + | $\div$ | - | - | + | + | X | X | X | $\div$ | $\div$ | - | - | - | X |
| X | + | $\div$ | - | - | - | + | + | X | X | X | $\div$ | $\div$ | - | $\div$ | X |
| $\div$ | X | X | X | $\div$ | $\div$ | - | - | - | + | + | X | X | X | $\div$ | X |
| $\div$ | - | - | - | + | + | X | X | X | $\div$ | $\div$ | - | - | - | + | + |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

## PUZZLE 169

This grid follows a certain pattern. Can you work out which signs complete the missing grid?


D
E

## PUZZLE 170

Can you work out which two pyramids cannot be made from the above layout?

See answer 168

6


6
4
8



8
5 $\square$
1

## PUZZLE 171

Can you work out the reasoning behind these squares and replace the question mark with a number?

## LEVEL 2



See answer 83


## PUZZLE 173

Take one letter from each cloud in order. You should be
able to make the names of five playwrights.
See answer 25


Can you find the odd shape out?
See answer 133

LEVEL 2


## PUZZLE 175

Can you work out which of these diagrams is the odd one out?

See answer 107



A


B


C


D

$E$

## PUZZLE 176

Can you find the symbol that would continue
the sequence above?
See answer 126


Can you work out what the next symbol in this sequence should look like?

See answer 44


## PUZZLE 178

Can you find the letter which completes this diagram?


PUZZLE 178

Can you work out where the boat leaving from
Quay 89 is bound for?

|  |  |  |  | 1 |  |  |  | - |  |  |  |  |  | 7 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | - |  | $\cdots$ |  | 7 | 1 |  |  |  |  |  |  |  |  |
|  | - |  | 1 |  |  |  | - |  |  |  |  |  |  |  |  |
|  | - | $\Rightarrow$ | 7 | - |  | - | - | $\downarrow$ | 7 | 令 |  |  |  |  |  |
|  | - | $\pm$ | 7 | - | - | - | $\checkmark$ | - | - | - | - |  | $\cdots$ | 1 |  |
|  | - |  | - | - |  |  | - | $\square$ | 1 |  |  |  |  | 1 |  |
|  | - |  | - | - | - | 4 | - | - | - |  |  |  |  |  |  |
|  | 7 | 5 | $\square$ | 1 | - | - | $\cdots$ | 1 | $\square$ |  |  | - | - | - |  |
|  | 1 |  |  | 1 | $\Rightarrow$ | - | $\Rightarrow$ | E | 1 |  |  |  |  | - |  |
|  | $\square$ |  | - | 1 | + |  | $\Rightarrow$ | 1 | 1 |  |  |  |  | - |  |
|  | - |  |  | - | - | $\square$ | 1 |  | $\square$ |  | $\square$ | 1 | 1 | - |  |
|  | - |  |  | $\Rightarrow$ | - | - | $\rightarrow$ | - | F |  |  | - | $\dagger$ |  |  |
|  |  | - | - | $\dagger$ | 7 |  | - | - |  |  |  |  | - |  |  |
|  | - | \# | - | 1 | 7 | 1 | $\square$ | $\square$ | - |  | - | E | $\square$ | $\square$ |  |
|  |  | - | 1 | 7 |  |  |  | - |  |  |  |  | 1 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  |  |  |
| :--- | :--- | :--- |
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## PUZZLE 180

This grid is made up according to a pattern. Can you work it out and complete the missing section?


## 11131725323747 ?

## PUZZLE 181

Can you work out which number comes next in this series?


## PUZZIE 182

Can you work out where the shaded square in the last diagram should be?

See answer 129
See answer 82


PUZZLE 183

LEVEL 2


## PUZZLE 184

Can you work out which triangle does not follow the same
rule as the others?

## See answer 73



## PUZZLE 185



## PUZZLE 186

Can you find the odd diagram out?
See answer 127


How many circles can you find in this diagram altogether?
See answer 76

## Answer 1

C. Dickens. The code is based on the number alphabet reversed, i.e. $Z=1, A=26$, etc.

## Answer 2

C.

## Answer 3

20. Multiply hours by minutes and divide by 3 to get the number of the rider.

## Answer 4

D. Multiply digits. The resulting product gives the alphabetical position of the first letter of the place name.

## Answer 5

9.05. The minute hand goes forward 25 minutes, the hour hand back by 5 hours.

## Answer 6

E. Fold the top half onto the bottom half and turn the shape $45^{\circ}$ anti-clockwise.

Answer 7<br>Carmen, Fidelio, La Traviata, Lohengrin, Boris Godunov. The additional opera is Don Giovanni.

## Answer 8

The symbols are determined by the number of sides, as follows: circle 1 , L-shape 2 , triangle 3 , square 4 , pentagon 5 , hexagon 6 . Starting at 1 and moving in a clockwise direction skip 1 shape, then 2 , repeat. When you have reached the 8th segment continue with the 1st segment in the 2 nd circle, and continue in the same order in this and the subsequent circle.

## Answer 9

The shapes form two series which go from top to bottom of succeeding squares. The squares and circles alternate. The sequence of shading is: quarter, half, three-quarters, fully shaded.

## Answer 10

384. Starting at the top right hand corner work through the square in a vertical boustrophedon, multiplying by 4 and dividing by 2 alternately.

## Answer 11

D. They are all in alphabetical order except for $D$.


## Answer 12

It starts at the top left and works inward in an anti-clockwise spiral.

## Answer 13

18. Multiply the numbers in the outer section, reverse the product and put in the middle of the next section.

## Answer 14

T. Based on the number alphabet backwards, add together two consecutive squares in the same row. Convert the sum to a new letter and put in the row above in the square that is directly above the two consecutive squares.

## Answer 15

No. 2. Take the first digit of the weight from the second to arrive at new number.

## Answer 16

3.13. Start time $A$ minus Finish $A=$ Finish $B$. Start time $B$ minus Finish $B=$ Finish $C$, etc.

Answer 17
142334. It works on a number code. 1 is letters $A-E$ inclusive, $2 \mathrm{~F}-\mathrm{J}, 3 \mathrm{~K}-\mathrm{O}, 4 \mathrm{P}-\mathrm{T}, 5 \mathrm{U}-\mathrm{Y}$ and 6 Z .

## Answer 18

Denver, Buffalo, Saginaw, Boston, Seattle, Miami. The extra city is Philadelphia.

## Answer 19

Blake, Byron, Dante, Donne, Plath.

## Answer 20

G. It is a term for tempo, while the others are types of dances.

Answer 21
Ratatouille. It is the only vegetarian dish.


The symbol moves from section 1 in the first circle to section 1 in the second circle, then to section 1 in the third circle, and then to section 2 in the first circle etc.

## Answer 23

48. In each box of four numbers, multiply the top two numbers, put the product in the bottom right box, then subtract the top right number from the bottom right one and put the difference in the bottom left box.

## Answer 24

C. Take the first digit from the second. The resulting digit gives the alphabetic number of the initial letter of the answer.

## Answer 25

Brecht, Coward, Dryden, Pinter, Racine.

## Answer 26

21. $\Delta=12, *=9, \vee=3, \%=5, @=7$.

## Answer 27

76. Starting at the bottom left hand corner, work through the square in a clockwise spiral, multiplying by 2 and subtracting 6, alternately.

## Answer 28

Bacon, Bosch, Klimt, Manet, Monet.

## Answer 29

A.

## Answer 30

Camus, Defoe, Dumas, Verne, Wells.

## Answer 31

G. Starting at the bottom left corner, work through the alphabet in an anti-clockwise spiral. Miss 1 letter, then 2 letters, 1 letter, etc., going back to the start of the alphabet after reaching $Z$.

## Answer 32

92. Multiply the numbers on the diagonally opposite corners of each square and add the products. Put the sum in the third square along.

## Answer 33

44. The numbers increase clockwise first missing one spoke, then two at the fourth step. Each circle increases by a different amount $(2,3,4)$.

## Answer 34

1956. The numbers represent the leap years clockwise around the triangles starting at the apex. Miss one leap year each time.

## Answer 35

Tiramisu. This is a dessert; the others are all main courses.


## Answer 36

Add the number of segments in column 1 to the number of segments in column 3. Draw this number of segments in to column 2.

## Answer 37

Fresno. Skip two letters in the alphabet each time.

## Answer 38

15. Take the minutes in the hours, add the minutes and divide by 10 . Ignore the remainder.

## Answer 39

987. The tractor number is divided into the weight to give the acreage. The weights have been mixed up.

## Answer 40

Kebab, Pasta, Pizza, Tacos, Wurst.

## Answer 41

Bartok, Boulez, Chopin, Delius, Mahler.

## Answer 42

The faces pattern sequence is smiley, smiley, straight, sad, sad, smiley, straight, straight, sad, etc. Start at the bottom left and work in a horizontal boustrophedon.

## LEVEL 2 - ANSWERS




## Answer 44

The symbol turns $180^{\circ}$ clockwise, $135^{\circ}$ anti-clockwise, $90^{\circ}$ clockwise, $45^{\circ}$ anti-clockwise.

## Answer 45

$\checkmark=8, \hat{2}=4, \diamond=6, \stackrel{y}{*}=2$.

## Answer 46

Idaho, Iowa, Maine, Texas, Utah. The dummy letters are K and L .

## Answer 47

C. Add the digits to get the alphabetic number of the town's initial letter.

## Answer 48

Sky Fly. The name contains no vowels.

Answer 49
C. The others are all in the correct order if you start from Earth and travel away from the sun.

## Answer 50

Bodega, Bonsai, Ersatz, Hombre, Kitsch.


Answer 51
The pattern sequence is $1,2,2$, $3,4,4,1,2,3,3,4$. Start at the top left and work in a horizontal boustrophedon.

## LEVEL 2 - ANSWERS



## Answer 52

The pattern is +2 scales, +3 scales, -1 scale. A fish with an even number of scales faces the other way.


## Answer 53

The pattern is +1 limb, $+2,+3,-2,-1$, $+1,+2,+3$, etc. A figure with an uneven number of limbs is turned upside down.


## Answer 54

Starting at opposite ends the symbols move alternately 1 and 2 steps to the other end of the grid in a boustrophedon.


## Answer 55

Starting with a vertical line reflect the dot first against that line and then each following line in a clockwise direction.

## Answer 56

21. 



## Answer 57

The corresponding sections in each wheel should contain a black section in each compartment.

## Answer 58

Brunel, Darwin, Edison, Pascal, Planck.

## Answer 59 - See page 184

## Answer 60

D. All the others are cities, Kansas is a state (Kansas City actually straddles the Missouri-Kansas border).

## Answer 61

61. Letters are worth the value based on alphabetical position ( $A=1$, etc.). However, alternate letters are worth the value based on the reversed alphabet ( $A=26$, etc.).

## Answer 62

C. Starting at the top right hand corner, work through the alphabet, missing $1,2,3,4,5,4,3,2,1,2$, etc. letters each time, in a vertical boustrophedon.

## Answer 63

Gallus, Jovian, Julian, Trajan, Valens.

## Answer 64

M. These are all the letters with straight sides only.

## Answer 65

64. Take each digit individually. The pattern is $1,2,3,1$, then $2,3,4,2$, then $3,4,5,3$, and finally $4,5,6,4$.

## Answer 66

18. These are all the numbers that can be divided by either 3 or 4 .

## Answer 67

B. The digits of all the others add up to 6 .

## Answer 68 <br> 1980. Vowels $=243$, Consonants $=126$

## Answer 69

576. Multiply No. by speed, put the product as the distance for the next balloon.


Answer 70
The pattern is:

$$
++---\div \div \times \times \times
$$

Start at the top left and work clockwise in an inward spiral.

## Answer 71

6. In each square, multiply the top and bottom left together, then multiply the top and bottom right. Subtract this second product from the first and put this number in the middle.

## IEVEL 2 - ANSWERS



## Answer 72

75. In each square, multiply the top and bottom left numbers, then the top and bottom right. Add these two products, reverse the digits of this sum and place it in the middle.

## Answar 73

C. Divide the left number by 2 , place this number at the apex, then square it and put this number at the right. Finally, add all three numbers together and put the sum as a roman numeral in the middle. In triangle $C$, the right number should be 4 and the middle number should be $X$.

## Answer 74

B. In each square multiply the two top numbers, then the two bottom ones. Subtract the latter product from the former, translate the difference into Roman numerals and put it in the middle. Square B should be XX (20).

## Answer 75

R. Starting on the top left hand corner, work through the alphabet, missing a letter each time, in a vertical boustrophedon.

Answer 76
17.

## Answer 77

JOL 1714. Go 5 forward and 3 back in the alphabet. The numbers continue from the alphabetic position of the letter.

> Answer 78
> 35226252257. The numbers are in code from the newspaper titles. $\mathrm{A}-\mathrm{C}=1, \mathrm{D}-\mathrm{F}=2, \mathrm{G}-\mathrm{I}=3, \mathrm{~J}-\mathrm{L}=4$, $\mathrm{M}-\mathrm{O}=5, \mathrm{P}-\mathrm{R}=6 \mathrm{~S}-\mathrm{U}=7, V-X=8, Y-Z=9$.

## Answer 79

No. 52. Add together the value of the letters based on their alphabet position.

## Answer 80

29. Add together the corner squares of each row or column in a clockwise direction. Put the sum in the middle of the next row or column.

## Answer 81

F. This is based on the number alphabet backwards. Add together the corner squares of each row or column and put the sum in the middle square of the opposite row or column.

## Answer 82

58. Add the digits of the last number and move on by that number.

## Answer 83

D. Reflect the shape along a horizontal line, then move each sign one segment clockwise.

## Answer 84

QUS 2321. Go forward by 4 and back by 2 in the alphabet, then continue with numbers taken from the letters' alphabetical position.

## Answer 85

No 201. Add together the values of the letters based on their reversed alphabetical position, $(A=26, Z=1)$.

## Answer 86

E. The shape has been folded along a horizontal line.

A shaded piece covers an unshaded one.

## Answer 87

Picasso. Based on the letters' position in the alphabet, 3 has been added to each value.

## Answer 88

G. Add 3 to odd numbers, subtract 2 from even numbers.

## Answer 89

E. The outer shape changes to the inner shape, the openings rotate through $90^{\circ}$ clockwise.

## Answer 90

84. Multiply the hours of $A$ by the minutes of $B$ to get the tonnage of $C$, then $B$ hours by $C$ minutes to get $D$, $C$ hours by $D$ minutes to get $E, D$ hours by $E$ minutes to get $A$, and $E$ hours by $A$ minutes to get the tonnage of B.

## Answer 91

I. It is based on the number alphabet backwards. Add the top and bottom rows together and put the sum in the middle.

## Answer 92

It should have two dots. Add together the corner squares of each row or column and put the sum in the middle square of the opposite row or column.

## Answer 93

$\boldsymbol{E}$. Based on the position of the letters in the alphabet, multiply column one by column three and place the product in the middle column.

## Answer 94

D. Add consecutive clockwise corners of the diamond and place the sum on the corresponding second corner. Add the four numbers together and place the sum in the middle.

## LEVEL 2 - ANSWERS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{S}$ |  | E | B | 1 | L | F | O | - | E | U | T | A |  | A |  |  | D |
|  | S | T | A | T | U |  |  |  | B |  | R |  | 0 | F |  |  |  |
|  | L | 1 | B | E | R | 1 | E | E |  |  | B |  | R |  |  | O |  |
| B | 0 | F | L | 1 | B | U |  |  | 0 | S | T | A |  | F | S | , |  |
| $\bar{E}$ |  |  |  | A | T | U |  |  | 0 |  | S |  |  | S |  |  | F |
|  | 0 | F | L | A | S | U |  |  | T |  | E |  | T | A | S |  |  |
|  |  | C |  | B |  | L |  | R | 1 |  | Y |  | S |  |  |  |  |
|  |  |  |  | A |  | 5 |  |  | Y |  | T | A | T | U | A |  |  |
| $E$ | L |  |  | B | B | E | E | S | S |  | A |  | U | E |  |  |  |
| $\overline{\mathrm{R}}$ |  |  |  | Y | R | Y |  |  | R |  | B |  | F |  |  |  |  |
|  |  | R | A | T |  | S |  |  | F |  | 1 |  | E | R |  |  |  |
|  |  |  |  | B | E | T | 0 | 0 |  |  | T |  |  |  |  |  |  |
|  |  | A |  | U |  | A |  |  |  |  | R |  |  |  |  |  |  |
|  | B | 1 L | L | F | 0 | T | S | ST | T | A | T |  | E | 0 | E |  |  |
|  | T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Answer 96

Renoir. The letters in this code come one before in the alphabet, with the artist's name reversed.

## Answer 97

16. 

## Answer 98 - See above

## Answer 99

3G.

## Answer 100

10. Add 2 to each value, place sum in corresponding position in next triangle, then subtract 3 , add 2 again.


## Answer 101

The pattern sequence is @, @, $\%, *, \%, \&, \&, *, \%$. It starts at the top right and works inwards in an anti-clockwise spiral.

## Answer 102

Degas. Each letter is the same number of letters from the end of the alphabet as the letter in the artist's name is from the beginning.

## Answer 103

J. All of the others have a matching partner.

## LEVEL 2 - ANSWERS

## Answer 104

D. Alternate between rotating the pattern $90^{\circ}$ anti-clockwise, and swapping direction of each individual arrow.

## Answer 113

B. Each arch moves closer to its opposite end by an equal amount each time.

Answer 114
B.


## Answer 115

The pattern sequence is:

## ZRTTUWWZZS

Start at the bottom right and work up in a horizontal boustrophedon.

## Answer 116

B.

## Answer 117

F. A curve turns into a straight line and a straight line into a curve.

Answer 118
A.

## Answer 119

V. The letters are based on the number alphabet backwards ( $Z=1, A=26$, etc). The values on the bottom corners and the value in the middle added together result in the value on the apex.

## Answer 120

3. The numbers rotate anti-clockwise from one square to the next and decrease by 2 each time.

## Answer 121

9. Multiply the values in the same segments in wheels 2 and 3 and put the answer in the next segment in wheel 1, going clockwise.

## Answer 122

$\mathbf{N}$. Going from the top to the bottom of one domino piece, then to the top of the next piece, etc., alternately move on five letters and three back.

## Answer 123

T. Hardy. Each letter in this code follows that of the author, e.g. ' $U$ ' comes after ' $T$ ' in the alphabet.

## Answer 111

12. Add together the values in the same segments in wheels 1 and 3 and put the answer in the opposite segment in wheel 2.

## Answer 110

9. The numbers rotate clockwise and increase by 1 each time.
[^0]
## LEVEL 2 - ANSWERS

## Answer 124

C. The number of small circles equals the number of edges of the shape, except for ' $C$ ' where there is one more circle than edges.

## Answer 125

E. All the others consist of 3 consecutive letters in the alphabet.

## Answer 126

B. Deduct one dot and one line, add two dots and two lines, repeat.

## Answer 127

E. All the others contain two stars for every half moon.

## Answer 128

C.


## Answer 129

The shaded square moves around the square in a horizontal boustrophedon, starting at the top left hand corner. It advances by 2 squares, then 3 , then 4 , etc.

## Answer 130

D. Each column of elements alternates and moves up two rows.

## Answer 131

J. Austen. Each number is double the letters' alphabetical position.

## Answer 132

E. All the other elements consist of 3 consecutive numbers.

## Answer 133

D. The circle in all other elements intercepts an edge in both the small and large shape outline.

## Answer 134

A. Each small bar moves one place anti-clockwise in alternate shapes, so that they are either $90^{\circ}$ or $180^{\circ}$ apart.


Answer 135
The pattern sequence is $7,1,1$, $3,2,2,5,5,4,1$. It starts at the top right and works in an anti-clockwise spiral.

## Answer 136

$\boldsymbol{+} \div \mathbf{- x}-\boldsymbol{+}$. The letters are based on their alphabetic position, so the sum would read:
$\mathrm{L}(12)+\mathrm{D}(4) \div \mathrm{B}(2)-\mathrm{F}(6) \times \mathrm{K}(11)-\mathrm{Q}(17)+\mathrm{C}(3)=\mathrm{H}(8)$.

## Answer 137

8. The sum of hands on each clock is 13 .

## Answer 138

13. 

## Answer 139

Independence. The initials can be rearranged to form the name Madrid.

## Answer 140

B. It is the only figure that does not have three boxes in one row.

## Answer 141

B. Working in an anti-clockwise spiral pattern, in the first square there are eight lines, one missing, seven lines, one missing, etc. The number of lines before the first break decreases by one with each square.

## Answer 142

E. It is the only one where the small and large circles do not overlap.

Answer 143
3.

## Answer 144

4. 

## Answer 145

B. It is the only figure which, with an additional line, has a triangle adjoining the rectangle which overlaps the square.

## LEVEL 2 - ANSWERS

## Answer 146

F. The small and large elements become large and small respectively.

## Answer 147

A. It is the only one to have an odd number of lines.

## Answer 148

D. It is the only one to which a circle can be added where the triangle overlaps the circle and a right angled line runs parallel to the whole of one side of the triangle.

## Answer 149

B.

## Answer 150

B. Each time the square becomes the circle, the triangle the square and the circle the triangle.

## Answer 151

21. Multiply each number by the number on the opposite side of the wheel on the same side of the spoke and put the product in that segment next to the centre.

## Answer 152

2. 

## Answer 153

C. It is the only one to have an odd number of one element.

## Answer 154

D. A circle becomes a square, a line a circle and a square a line, all in the same size and position as original.

## Answer 155

D. All the others are symmetrical.

## Answer 156

F. The circles and squares become squares and circles respectively. The largest element loses all internal elements.

## Answer 157

No. She hates capital cities.

## Answer 158

No. Illinois had an $S$ in it.

## Answer 159

Yes. Swansea had no O in it.

## Answer 160

D. The number of edges of the shapes in each square increases by 1 in each column, starting from the top.

## Answer 161

E. Add two circles and two lines, take away one of each, repeat. The pattern is also rotated by $90^{\circ}$ anticlockwise each time.

Answer 162
Forward, back, forward, back.

## Answer 163

D.


## Answer 164

The pattern sequence is: $1.00,2.00,2.00,1.00,3.00$, $3.00,2.00,4.00,4.00 .3 .00$, $5.00,5.00,4.00,6.00,6.00$. Starting at the bottom left work upwards in a vertical boustrophedon.

Answer 165
E.

## Answer 166

Washington.

## Answer 167

c.

Answer 168
D and $\mathbf{E}$.

## LEVEL 2 - ANSWERS

## Answer 169

B. It consists of 14 straight lines, the rest of 13.

## Answer 170

C. It is the only one which does not have half as many 'step' lines as there are triangles.

## Answer 171 Pantagruel.

## Answer 172

Frankenstein.

## Answer 173

E. A square becomes a circle, a circle a triangle and a triangle a square of similar proportions and positions.

## Answer 174

B.

## Answer 175

A. Each shape increases by one of the same until there are three and it then becomes one. The image is reflected after a shape with two elements.

## Answer 176

Excalibur.

## Answer 177

Nostradamus.

## Answer 178

H. Longer rectangles and arrows swap shading. Smaller rectangles and arrows interchange shape and shading. The pattern is then flipped vertically.

## Answer 179

B. It is the only one with the same number of vertical and horizontal lines.

## Answer 180

E. Two letters following the first example, facing the correct direction, run into each other.

Answer 181
D.


## Answer 182

The pattern sequence is as follows.


Start at the bottom left and work in a clockwise spiral.

## Answer 183

B. Based on the number alphabet backwards, add the values of the two letters on the outer edge of each segment and place the sum into the opposite segment on the inside.

Answer 184
$-\mathbf{x + - \div + 9 - 3 \times 4 + 1 9 - 8 \div 5 + 4 = 1 1 \text { . } . ~ . ~ . ~}$

## Answer 185

B. The others all have an equal number of straight lines and curves.

## Answer 186

F. Circles and rectangles interchange except for strings of 3 circles which disappear.

## Answer 187

Back, back, forward, back.

Your puzlie notes
(2)

YOUR PUZILE NOTES

## MAZES



## MALES



nh
(1)


## MAZES




MAZE - ANSWERS


## MAZE - ANSWERS



## MAZE - ANSWERS



## MAZE - ANSWERS



MAZE - ANSWERS


MAZE - ANSWERS


## MAZE - ANSWERS



MAZE - ANSWERS


LEVEL 3


See answer 23


## PUZZLE 2

Can you work out which symbol follows the series?

LEVEL 3

| $1{ }^{1} \mathbf{8}$ | 易 | \％ | 易 | \％${ }^{\text {a }}$ | \％ | 砍 | 알 | \％ | \％ | \％ | 屏 | ［鹗 | 込 | \％ | ［崀 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ［188 | Q | 抣 | 为 | 抣 | 抣 | 倞 | 鋉 | 抣 | \％ | 退 | $\chi_{\square}$ | 148 | 咕 | 杨 | ［骂 |
| 姦 | 边 | 18 | 抣 | \％$¢$ | Liz8 | ［罗 | 㞕 | 造 | 禺 | 近 | \％ | 淘 | 叹翌 | \％ | 䓪 |
| \％ 20 | 㞕 | 咪 |  |  |  | 垦 | 耐 | 昭 | 屏 |  | 易 | （8）${ }^{4}$ | 过 | Lag | 屋 |
| L | Q | 筁 |  |  |  | 屏 | ［哭 | 屏 | 我 | \％ | \％ | 匆 | 边 | 易 | 昤 |
| L－8 | ［18） | 㛡 |  |  |  | 980 | \％ | 易 | \％ 8 ［ | 翇 | 抣 | 路 |  | \％ | ［8） |
| 㞕 | \％ | 장 | 㞕 | \％ | $1{ }^{88}$ | \％ | 局 | 迬 | 抣 | $\mathcal{E}$ | 建 | \％ | Lig | \％ | 易 |
| \％$\square_{1}$ | 易 | $1{ }^{\text {8 }}$ | 상 | 给 | $080$ | 胞 | － | 抣 | 攻 | 吱 | 살 | 易 | （8） | ［羿 | \％ |
| 易 | 禺 | 抣 | ${ }^{8}=1$ | 0 | \％$\square_{1}$ | 层家 | 禺会 | 禺 | 㞕 | ［界 | 保 | 㞖 | 迆 | 迬 | 408 |
| \％${ }^{2}$ | 易 | 醇 | 抣 | ［18） | ［过 | 㱠 | Le8 | 果我 | 㞔 | 㤨 | 屏 | \％ | 易 | 気 | 酭 |
| \％ 2 | 㞕 | ［18） | 㞔砳 | 践 | L ${ }_{8}^{8}$ | 碞 | \％ | L》 | 残 | \％ | \％$\square_{1}$ | 莌 | 吹習 | （4） | 國 |
| 㞕 | \％ | 0 | 장 | 㞔 | ［守 | ［曻 | \％ | \％$\quad 1$ | \％ | 㞕 | \％ | 综 | ［08 | 㞕 | \％ |
| 哭 | 㤨 | 㞔 | L習 | \％$\square^{1}$ | 層 | 얼 | 㞕 | 㦯 | 弱 | $)^{8}$ | 效 1 | 昒 | 㞕 | \％$\geq 1$ | 局 |
| \％\％ 1 | 屏 | 港 | 염 | $1{ }^{\text {¢ }}$ | 亚 | 局 | ［習 | 摬 | 焒 | \％$¢$ | ［88 | 昭 | 边 | 呙 | ［88 |
| \％ | \％ | 怱 | 害 | 㞕 | 㤨 | 昒 | \％ | L ${ }_{8}^{8}$ | 咎 | \％$\square_{0}$ | \％$\chi^{1}$ | ［罗 | （4040 | 屏 | 筁 |
| \％ | 屏 | \％ | \％${ }^{1}$ | 残吅 | ［18 |  | 㞕 | 㞕 | （4）A | U－8 | 屏 | \％$\square_{1}$ | 昭 |  | \％ |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

## PUZZLE 3

Can you work out the reasoning behind this grid and complete the missing section？


See answer 72


Can you work out which are the two odd letters out

## PUZZLE 5

0 L
I

## PUZZLE 6

Can you work out what should replace the question mark?

| S4 | E3 | SW2 | E8 | E3 | E3 | SE3 | SW1 | SW6 | S6 | S1 | W2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SE4 | S2 | SE5 | S2 | NE1 | S6 | SE3 | SE4 | W5 | SW2 | S1 | W11 |
| NE1 | E5 | N2 | E2 | W1 | SE3 | S1 | W5 | S4 | E2 | NE1 | W4 |
| NE2 | S3 | W2 | N3 | E6 | NW1 | NW2 | W5 | N1 | E2 | S3 | W7 |
| E2 | SW1 | NE4 | SW1 | S2 | S2 | W5 | W1 | W4 | SE1 | X | W1 |
| E3 | NE4 | E7 | SW2 | E2 | N2 | SE2 | N4 | N1 | N4 | N5 | S2 |
| E6 | N1 | E9 | NE2 | NE1 | NE3 | NE1 | NW6 | W5 | N4 | W10 | N2 |
| NE3 | N5 | NE6 | E4 | W2 | W2 | E3 | W1 | W4 | E1 | NW3 | W11 |

This diagram represents a
treasure map. You are allowed tc stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follov the instructions you find there. The first one or two letters stand for points of the compass ( $\mathrm{N}=$ North, $\mathrm{S}=$ South, etc.), the numb for the number of steps you havt to take. The finishing point is th square with the asterisk.
Can you find the starting point? There is one complication. You will find that you never land on some of the squares at all. If you cross out those squares on whict you have landed you will see the those on which you have not for a two-figure number. What is it?


PUZZLE 8
Can you work out the reasoning behind this diagram and fill in the last square?


## PUZZLE 9

Can you work out what the missing symbol should look like?

LEVEL 3


LEVEL 3


## PUZZLE 11

These letters, when joined together correctly, make up a
novel and its author. Can you spot it?

LEVEL 3


Can you find the number that should replace the question mark?

See answer 155


## PUZZLE 18

Can you work out which number should replace the question mark?

See answer 84


Can you find the odd one out?

See answer 110

LEVEL 3

| I | D | I | A | I | D | D | A | I | A | I | I | D | A | I | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | I | A | I | A | D | A | A | D | A | I | I | A | D | A | I |
| A | A | D | I | I | A | D | D | A | D | D | A | I | D | I | A |
| I | A | A | I | D | I | D | D | D | I | A | D | A | A | D | A |
| D | A | D | A | I | D | I | A | D | D | A | D | D | A | I | D |
| I | A | A | D | A | D | A | I | A | D | D | A | D | I | D | A |
| A | D | I | I | I | I | D | D | A | I | I | A | D | A | I | D |
| D | A | I | D | D | A | D | D | D | A | I | D | D | I | D | A |
| D | A | D | A | D | D | A | D | D | A | A | D | A | A | D | I |
| I | A | D | D | A | I | A | D | D | A | A | D | D | A | D | I |
| D | A | A | D | A | D | A | D | D | D | D | I | A | I | D | I |
| A | D | A | A | D | A | D | A | D | A | D | A | D | A | D | A |
| I | A | A | D | A | A | I | A | I | D | A | A | D | D | A | D |
| D | I | D | A | D | D | D | I | D | A | A | D | I | D | D | A |
| I | D | A | D | D | D | A | A | I | D | I | D | A | A | I | A |
| A | I | A | D | A | A | D | I | D | A | D | I | I | D | I | D |

## PUZZIE 15

In this grid the word AIDA, written without a change of direction, appears only once. It can be written forwards and backwards in a horizontal, vertical or diagonal direction. Can you spot it?

## LEVEL 3



Can you unravel the reasoning behind this star and fill in the missing letter?

See answer 86


Can you work out what number the missing hour hand on clock 4 should point at?

See answer 10
A

Boston - Nashville

C


Can you unravel the logic behind the starting point and destination of each of these cars and find out where car $E$
is going?


## PUZZLE 18

B


Chicago - Vancouver


Augusta - ?
a) Washington
b) Milwaukee
c) Ottawa
d) Galveston

## LEVEL 3



Pick one letter from each flower in the order shown. You will get the names of five statesmen. Who are they?


## PUZZLE 20

Can you unravel the reasoning behind these domino pieces and find the missing letter?

See answer 93


14

$?$


29

## PUZZLE 22

> Can you work out which number fits underneath letter A?

See answer 104

## LEVEL 3

|  |  | 2 | 7 | 3 | 8 | 4 | 9 |  | 2 | 7 | 3 | 8 | 4 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 9 | 9 |  |  |  |  |  |  |  | 2 | 7 | 3 | 8 | 4 | 9 |
| 4 | 4 | 3 | 8 | 4 | 9 |  |  |  |  |  |  |  |  |  |
| 8 | 8 | 7 |  |  |  | 2 | 7 | 3 | 8 | 4 | 9 |  |  |  |
| 3 | 3 | 2 |  | 4 | 9 |  |  |  |  |  |  |  |  |  |
| 7 | 7 |  |  | 8 | 7 | 3 | 8 | 4 | 9 |  |  |  | 2 |  |
| 2 | 2 |  |  | 3 | 2 |  |  |  |  |  |  |  | 7 |  |
|  |  |  |  | 7 |  |  |  |  |  |  |  |  | 3 |  |
|  |  |  |  | 2 |  |  |  |  |  |  |  |  | 8 | 2 |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  | 9 | 3 |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| 8 |  |  |  |  | 9 | 4 | 8 | 3 | 7 | 2 |  |  |  | 4 |
| 3 |  |  |  |  | 9 | 4 | 8 | 3 | 7 | 2 |  |  |  | 9 |
| 7 |  | 9 | 4 | 8 | 3 | 7 | 2 |  |  |  |  |  |  |  |
| 2 |  |  |  |  | 9 | 4 | 8 | 3 | 7 | 2 |  |  |  |  |

## PUZZLE 23

The numbers in this grid occur in the following order:
$9,4,8,3,7,2$ and run in an anti-clockwise spiral
starting at the top right. It is complicated by the addition
of spaces and repeats according to a pattern.
Can you complete the missing section?
See answer 30

## LEVEL 3



## PUZZLE 58

## 

 cotery byother of

Suddernly Bitl sgw \% moxi in the erowd


${ }^{4}[$ donit belteve fitbu geespec Tona ${ }^{42}[ \}^{v} \&$ Phivim


+acturbat phty

## Neither brother had ever seen him

## before.

See answer 56


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

## PUZZLE 25

Can you work out the reasoning behind this grid and complete the missing section?


## PUZZLE 26

Can you unravel the reasoning behind this juggler and find the missing letter?

See answer 83


## PUZZLE 28

Can you work out which letter does not belong in the second circle?

There is something wrong with the list below. Can you spot what it is?

| Red | Black | Orange |
| :--- | :--- | :--- |
| Purple | Green | Grey |
| Yellow | Brown | Blue |
| White | Indigo | Mauve |
| Violet |  |  |

## PUZZLE 27

See answer 92

## PUZZLE 28

Can you work out which letter fits the square with the question mark?

## LEVEL 3



The four pieces, top, when fitted together correctly, form
a circle. However, one has gone missing.
Can you find which one it is?
See answer 22

LEVEL 3


Can you unravel the reasoning behind this square and complete the missing square?


## PUZZLE 32

Can you find the missing number in this wheel?

See answer 5
See answer 11


LEVEL 3


## PUZZLE 34

Can you work out which is the odd one out?
See answer 75


## PUZZLE 35

Can you unravel the logic behind these diagrams and find the missing letter?

See answer 97


| D | R | I | V | E | R | I | D | V | E | R | D | D | R | I | V |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| R | D | R | I | V | E | R | D | R | I | V | E | R | V | E | R |
| I | V | E | R | D | V | E | R | D | D | R | I | V | E | R | V |
| V | D | R | I | V | E | R | D | E | R | C | I | E | V | V | E |
| E | D | R | I | V | E | E | R | V | D | I | V | E | R | D | R |
| D | R | I | V | E | V | R | V | D | E | R | I | V | E | R | D |
| V | D | E | R | I | D | I | V | E | R | D | R | I | V | E | R |
| D | R | I | R | V | E | R | D | R | I | D | R | D | V | D | E |
| D | R | R | V | I | D | R | E | V | E | R | D | R | I | V | E |
| D | A | D | R | I | V | E | D | R | I | V | D | R | I | V | E |
| I | R | D | R | E | V | I | R | D | R | E | V | I | R | D | R |
| V | E | R | D | D | R | I | V | E | R | D | R | I | V | E | D |
| V | I | V | I | V | E | V | R | D | E | V | D | E | V | I | R |
| E | R | E | R | E | D | E | D | R | R | I | R | V | E | R | I |
| R | D | R | D | R | R | R | R | I | D | R | I | I | R | D | V |
| I | I | D | I | D | I | D | E | V | I | D | V | R | D | R | E |



In this grid the name VERDI appears in its entirety only once in a straight line. Can you spot it? However, there is also another word hidden which involves one change of direction. What is it? It might have been one of the composer's famous last words.


Can you work out which is the odd diagram out?
See answer 82


Can you unravel the reasoning behind this star and fill in the missing letter?


Can you work out which letter fits in the square with the question mark?

## LEVEL 3



Pick one letter from each flower in the order shown. You will get the names of five actors.

See answer 76

LEVEL 3


Can you work out which two models cannot be made
from the above layout?


Can you work out which number should go into the square with the question mark?


| 5 | 3 | 6 | 4 | 4 | 3 | 5 | 7 | 5 | 7 | 9 | 2 | 2 | 5 | 8 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 9 | 8 | 9 | 6 | 1 | 5 | 8 | 6 | 6 | 8 | 3 | 7 | 6 | 7 | 4 | 4 |
| 2 | 1 | 5 | 7 | 8 | 3 | 1 | 3 | 5 | 1 | 6 | 6 | 8 | 9 | 8 | 6 |
| 7 | 6 | 2 | 9 | 1 | 1 | 8 | 3 | 1 | 5 | 1 | 7 | 5 | 3 | 4 | 1 |
| 8 | 5 | 6 | 6 | 2 | 4 | 4 | 8 | 3 | 8 | 4 | 7 | 1 | 6 | 1 | 8 |
| 7 | 6 | 2 | 2 | 5 | 2 | 3 | 7 | 4 | 5 | 8 | 5 | 7 | 6 | 3 | 1 |
| 7 | 9 | 3 | 1 | 8 | 4 | 5 | 4 | 7 | 7 | 9 | 4 | 8 | 5 | 6 | 3 |
| 3 | 6 | 8 | 8 | 2 | 9 | 8 | 8 | 2 | 5 | 7 | 2 | 1 | 8 | 3 | 5 |
| 5 | 6 | 9 | 6 | 5 | 3 | 4 | 7 | 4 | 7 | 4 | 2 | 6 | 6 | 5 | 5 |
| 1 | 6 | 3 | 2 | 3 | 4 | 5 | 8 | 1 | 1 | 2 | 4 | 9 | 3 | 2 | 7 |
| 5 | 8 | 9 | 7 | 1 | 8 | 3 | 6 | 9 | 3 | 6 | 3 | 5 | 4 | 9 | 4 |
| 8 | 4 | 5 | 6 | 7 | 1 | 5 | 1 | 8 | 5 | 8 | 3 | 1 | 2 | 5 | 7 |
| 7 | 2 | 2 | 9 | 2 | 2 | 4 | 7 | 4 | 9 | 4 | 1 | 8 | 6 | 7 | 8 |
| 2 | 4 | 3 | 9 | 5 | 6 | 7 | 8 | 5 | 8 | 3 | 2 | 7 | 5 | 6 | 1 |
| 5 | 9 | 4 | 3 | 4 | 2 | 6 | 1 | 7 | 3 | 4 | 9 | 2 | 6 | 9 | 1 |
| 3 | 2 | 5 | 8 | 1 | 3 | 2 | 5 | 3 | 8 | 3 | 5 | 3 | 1 | 2 | 7 |

## PUZZLE 48

Look at this grid carefully and you will find pairs of numbers that add up to 10 , in a either horizontal, vertical or diagonal direction.


## PUZZLE 48

Can you replace the question mark with a letter?
See answer 87


## PUZZIE 51

Can you work out the reasoning behind this wheel and fill in the missing number?


## PUZZLE 50

Can you find the missing number on the domino piece? You will find the answer in Japan.

See answer 113


## PUZZLE 52

Can you replace the question mark with a number?

LEVEL 3



PUZZLE 54
Can you unravel the reasoning behind this square and replace the question mark with a number?


B496 LXY 26 units


F287PTF
43 units


C275MAZ 51 units


K948SGN

PUZZLE 55

Each of the cars was filled with petrol.
Can you unravel the connection between the registration mark and amount of petrol and work out what amount the last car was filled with?
A) 30 units
B) 72 units
C) $\mathbf{3 6}$ units
D) 78 units

LEVEL 3




PUZZLE 56

Can you work out which face would fit the missing space?
See answer 88

LEVEL 3


These tiles when placed in the right order will form a square in which each horizontal line is
identical with one vertical line.
Can you successfully form the square?


Can you work out what the last clockface should look like?

See answer 16


## PUZZLE 58

Can you work out which is the missing letter on the last domino piece?

See answer 120

## PUZZLE 60

This diagram represents a treasure map. You are allowed to stop on each square only once (though you may cross a square as often as you like).

When you stop on a square you must follow the instructions you find there. The first one or two letters stand for the points of the compass ( $\mathrm{N}=$ North, $\mathrm{S}=$ South, etc).
What the last letter stands for is for you to find out. The finishing point is the square with the asterisk.

Can you work out where the starting point is?
See answer 13

| SEV | SEU | SU | SEY | SWY | EX | SP | SP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SS | $X$ | WY | SEV | EX | WW | SWT | WS |
| SES | SS | WX | NWX | SQ | NY | SQ | SWT |
| ET | SX | NEY | SEV | SU | SWW | WW | SR |
| SS | ET | SV | NWY | WV | NX | WY | SWT |
| SU | NEU | NEY | ST | NEW | NX | NW | NWU |
| NEV | NEW | SV | SEY | SV | NT | NX | NU |
| NX | NT | NT | EX | SWX | NX | NWY | SY |
| NX | NEX | NY | SY | NWY | SWX | NY | WY |
| NT | NEW | EW | NV | NEW | EY | SWY | NT |
| SEY | NV | NT | NEY | NU | NWX | NV | NWT |
| NX | NR | NEW | NO | NO | NWV | WY | WU |

## LEVEL 3

|  |  | ${ }^{\text {c }}$ | a |  | , |  |  |  |  |  |  |  | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | ¢ | O | ${ }^{2}$ | - |  |  | - |  |  | 2 | C | 50 | \% |  |
| c | P | ${ }^{6}$ | - | So | $\stackrel{\square}{9}$ |  | St | . |  | \% So | \% |  | ce |  |  |
| ad | - | - | 2 | S |  |  |  |  |  |  | ${ }_{5}$ | a |  |  |  |
|  | 2 | 2 | 6 | S |  |  |  |  |  |  | S | - | 2 |  |  |
| * | C | e | 6 | 9 |  |  |  |  |  | 6 | So | $\checkmark$ |  |  |  |
| $\xi \theta$ | $O$ | C | ${ }^{\text {¢ }}$ |  |  |  |  | - |  |  |  | 50 |  |  |  |
| ¢ | 2 | ? | S | $\cdots$ | 5 | S |  | 2 |  |  |  | 0 | 22 | a |  |
| c | 6 | R | ${ }_{\sim}^{\text {S }}$ |  | 12 | G |  | $\cos ^{5}$ |  | . | a | S | 6 |  |  |
| - | c | ${ }^{2}$ | So |  | c | \% |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ |  |  |
| $65$ | \% | So | ${ }^{\text {ct }}$ |  | c | ${ }^{6}$ |  | So |  |  | C | 6 | $\pm$ |  |  |
| C | ${ }_{0}$ | S | * |  |  |  |  | ¢ |  |  |  | C | S |  |  |
|  | G | ${ }^{\circ}$ | a |  |  |  |  |  |  |  |  |  |  |  |  |
| $\mathscr{O}$ | So | \% | C |  | C | C |  | - $\%$ |  |  | ${ }^{3}$ | C | 0 | \% |  |
|  | $\square_{6}$ | ${ }^{6}$ | C |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 61

Can you work out the reasoning behind this grid and fill in the missing section?

See answer 114

LEVEL 3


Can you unravel the reasoning behind this diagram and find the missing letter?

See answer 153

Can you find the odd number out?
See answer 124


## PUZZLE 64

Can you find the missing letter?


## PUZZLE 65

Can you unravel the pattern of this wheel and find the missing element?

See answer 15


Can you unravel the reasoning behind these diagrams and find the missing letter?


PUZZLE 66
Can you work out what the square with the question mark should look like?

See answer 12
 RE

0 L


Can you work out which is the odd letter out in these triangles?

LEVEL 3


LEVEL 3


## PUZZLE 70

The above pieces, put together correctly, form a disc.
However, two extra pieces got mixed up with them which
are not part of the disc. Can you find them?

See answer 38

## LEVEL 3

| 5 | 0 | 5 | 6 | 4 | 3 | 5 | 0 | 5 | 6 | 4 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 8 | 7 | 1 | 8 | 7 | 1 | 8 | 7 | 1 | 8 | 7 |
| 6 | 4 | 3 | 5 | 0 | 5 | 6 | 4 | 3 | 5 | 0 | 5 |
| 5 | 3 | 4 | 1 | 5 | 6 | 5 | 4 | 4 | 0 | 5 | 6 |
| 7 | 7 | 8 | 8 | 2 | 1 | 8 | 7 | 8 | 8 | 1 | 1 |
| 3 | 5 | 0 | 4 | 6 | 6 | 3 | 5 | 0 | 4 | 6 | 5 |
| 4 | 6 | 5 | 3 | 6 | 0 | 5 | 6 | 5 | 3 | 5 | 0 |
| 8 | 1 | 1 | 8 | 7 | 8 | 8 | 2 | 1 | 7 | 7 | 8 |
| 0 | 5 | 6 | 5 | 3 | 4 | 0 | 5 | 6 | 5 | 3 | 4 |
| 5 | 0 | 5 | 6 | 4 | 3 | 5 | 0 | 5 | 6 | 4 | 3 |
| 1 | 8 | 7 | 1 | 8 | 7 | 1 | 8 | 7 | 1 | 8 | 7 |
| 6 | 4 | 3 | 5 | 0 | 5 | 6 | 4 | 3 | 5 | 0 | 5 |

## PUZZLE 71

This grid follows the pattern: $6,1,5,0,8,4,3,7,5$. As a complication you will find some numbers have increased by one. If you highlight these numbers you will discover a letter. Which one is it?

See answer 52


## PUZZLE 72

Can you unravel the reasoning behind this diagram and find the missing number?

##  <br> 32 F

## PUZZLE 73

Can you replace the question mark with a number?

| A | G | K | A | V | E | D | C | B | V | D | N | P | R | U | V |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W | C | Q | D | H | K | F | L | G | M | R | S | A | B | Q | Y |
| Z | K | E | X | A | L | H | O | I | A | B | G | B | Q | C | R |
| V | R | A | W | T | B | I | T | K | N | K | A | O | B | G | U |
| B | C | D | G | X | A | E | Y | M | Z | B | M | B | F | M | N |
| D | O | Z | F | A | J | R | J | K | L | T | W | A | W | X | Y |
| F | A | E | O | H | R | S | A | O | G | A | C | E | G | T | A |
| H | K | L | A | X | Y | Z | B | R | F | J | F | O | P | Q | R |
| J | S | T | U | A | B | C | O | V | T | Q | X | S | T | U | V |
| L | M | N | G | F | J | D | U | Z | A | V | L | M | N | T | O |
| P | Q | R | M | O | Q | A | T | V | Y | D | E | F | R | G | H |
| I | J | N | X | Y | Z | B | V | C | D | E | F | A | B | C | D |
| S | K | O | A | B | C | F | X | G | H | X | Z | K | L | M | N |
| O | U | P | R | Y | W | S | T | U | K | L | A | B | C | A | B |
| P | A | W | F | G | H | I | N | A | E | X | D | P | V | X | E |
| Q | B | E | Y | A | C | K | Q | D | F | Z | L | M | A | R | C |

## PUZZIE 74

Look at the above grid carefully. You will find pairs of letters from the alphabet, with one letter missed out between them (i.e. $\mathrm{AC}, \mathrm{DF}, \mathrm{etc}$ ). The pairs can be in a horizontal, vertical or diagonal direction.

How many can you spot?

## LEVEL 3



Can you work out the logic behind these clockfaces and fill in the missing hands on clock No. 4? Both hands will point precisely in the same direction.

See answer 27


Can you find the letter that would replace the question mark?

See answer 137


## PUZZLE 77

Can you unravel the logic behind these diagrams and find
the missing letter?

LEVEL 3


## PUZZLE 78

The above pieces make up a disc when put together
correctly. However, one piece is missing. Which is it?
See answer 3

248

## LEVEL 3

## AMSTERDAM <br> ROTTERDAM <br> EINDHOVEN NIJMEGEN PUTTEN ARNHEM BREDA

## PUZZLE 78

Which of the towns in the right hand box should fill the blank space in the left? The answer is a long way from the Netherlands.

See answer 100


Can you work out which diagram would follow the series above?

See answer 111

## LEVEL 3



Can you work out which is the missing letter?
See answer 107


Can you work out which is the odd diagram out?
See answer 139


## PUZZLE 84

Can you unravel the reasoning behind this diagram and find the missing number?

LEVEL 3


| G | A | R | A | R | D | D | E | P | G | A | R | D | I | E | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | G | E | R | A | D | G | R | A | E | P | E | G | D | I | G |
| R | D | A | D | R | D | E | D | R | R | A | D | E | R | E | E |
| A | E | R | A | G | E | R | I | D | G | E | R | R | A | U | R |
| R | P | R | D | E | P | P | E | G | E | R | A | A | P | D | A |
| D | E | E | D | R | A | A | U | A | R | D | U | R | E | E | R |
| G | U | I | R | A | R | D | I | E | U | I | E | D | E | E | D |
| G | E | R | A | R | D | E | G | E | P | A | R | D | P | E | R |
| D | R | A | R | E | G | P | G | E | R | A | R | I | I | E | U |
| D | D | D | P | G | I | A | D | D | E | P | A | E | A | I | D |
| E | R | E | E | E | D | R | R | D | I | E | U | U | R | G | A |
| P | A | P | D | R | R | D | G | E | R | A | R | D | G | D | E |
| A | R | A | D | A | A | I | G | E | R | A | R | D | D | E | P |
| R | E | R | R | R | P | E | G | D | U | A | E | I | D | R | A |
| D | G | G | A | D | E | G | E | R | A | R | D | D | E | P | A |
| I | E | E | R | D | D | D | R | A | R | E | G | E | I | D | R |

## PUZZLE 86

In this grid the name of the actor Gerard Depardieu appears only once in its entirety. It is written in a horizontal, vertical or diagonal direction with two changes of direction. Can you spot it?


Can you unravel the reasoning behind this star and find the missing letter?

See answer 101

| 1 | 1 | 5 | 2 | 1 | 8 | 4 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 4 | 4 | 1 | 8 | 3 | 5 | 1 |
| 1 | 4 | 2 | 2 | 5 | 6 | 7 | 1 |
| 1 | 4 | 2 | 3 | 3 | 1 | 1 | 2 |
| 1 | 4 | 2 | 3 | 7 | 7 | 3 | 4 |
| 4 | 4 | 2 | 4 | 8 | 2 | 2 | 7 |
| 3 | 1 | 2 | 3 | 7 | 2 | 8 | 8 |
| 8 | 7 | 4 | 3 | 7 | 2 | 8 | 5 |
| 1 | 5 | 3 | 7 | 7 | 2 | 8 | 5 |
| 5 | 3 | 2 | 8 | 2 | 2 | 8 | 5 |
| 2 | 1 | 7 | 4 | 5 | 8 | 8 | 5 |
| 7 | 8 | 4 | 2 | 1 | 1 | 5 | 5 |

## PUZZLE 88

This grid follows the pattern: $3,1,4,1,5,8,2,7$. As a complication you will find some numbers have been increased by one. If you highlight these numbers you will discover a letter. Which one is it?

See answer 60



9 hrs 20 min
D. Samuel Blackborough


9 hrs 40 min

## PUZZLE 89

E. Arthur Hastings

a) $8 \mathbf{h r s} 20 \mathrm{~min}$
b) 8 hrs 26 min
c) 9 hrs 20 min
d) $\mathbf{7}$ hrs $\mathbf{1 4} \mathbf{~ m i n}$

Each racing driver takes a different length of time to complete the race. Can you unravel the connection between the name of the driver and the time and work out how long Arthur Hastings took? (Clue: The values are based on vowels and consonants).

LEVEL 3
A is to
B
as
C
is to

E

See answer 98

## PUZZLE 81

| E3 | S6 | E3 | SE3 | E3 | SW1 | SW1 | SW1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S6 | N1 | SE4 | NW1 | W2 | S1 | S5 | W4 |
| E4 | S2 | W2 | S3 | S1 | E2 | W4 | SW4 |
| E2 | N1 | SW2 | SE2 | SE1 | W5 | S4 | S1 |
| E2 | W1 | S1 | N2 | N4 | S2 | N2 | N3 |
| N4 | SW1 | E5 | N2 | NW1 | W1 | N1 | N2 |
| NE6 | SE1 | NW1 | SE1 | SE1 | N3 | NW5 | $\not 4$ |
| E1 | NE1 | E5 | NE1 | N3 | NW4 | W3 | N1 |

This diagram represents a treasure map. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The first one or two letters stand for points of the compass ( $\mathrm{N}=$ North, $\mathrm{S}=$ South, etc), the figure for the number of steps you have to take. The finishing point is the square with the asterisk.

Can you find the starting point? There is one complication. You will find that you never land on some of the squares at all. If you cross out those squares on which you have landed you will see that those on which you have not form a letter.

Which one is it?
See answer 49


Can you work out which is the odd number out in each circle?


Can you unravel the reasoning behind these diagrams and find the missing shape?

## LEVEL 3



PUZZLE 94

These pieces, when fitted together correctly, form a square.
However, two are not needed. Can you work out which
ones they are?
See answer 64

LEVEL 3
 names of five scientists plus one extra name.

Who is it?
See answer 46


## PUZZLE 97

Can you work out which number is missing from

Can you work out which shape should replace the question mark in this square?

| 18 | 3 | 16 | 7 | 10 | 3 | 14 | 15 | 2 | 13 | 7 | 6 | 12 | 19 | 2 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | 5 | 12 | 10 | 14 | 7 | 9 | 19 | 12 | 6 | 13 | 3 | 8 | 7 | 7 | 6 |
| 16 | 18 | 3 | 16 | 12 | 14 | 7 | 4 | 13 | 12 | 15 | 9 | 14 | 5 | 13 | 4 |
| 12 | 8 | 8 | 3 | 7 | 11 | 6 | 8 | 5 | 11 | 9 | 13 | 11 | 7 | 6 | 12 |
| 15 | 8 | 11 | 19 | 10 | 10 | 7 | 14 | 4 | 12 | 5 | 7 | 16 | 13 | 9 | 15 |
| 13 | 14 | 11 | 4 | 3 | 10 | 17 | 9 | 18 | 7 | 3 | 6 | 12 | 5 | 14 | 19 |
| 11 | 4 | 9 | 11 | 18 | 4 | 18 | 12 | 9 | 12 | 14 | 15 | 14 | 17 | 2 | 6 |
| 17 | 5 | 4 | 18 | 3 | 17 | 6 | 8 | 19 | 17 | 4 | 15 | 8 | 11 | 12 | 15 |
| 4 | 6 | 8 | 19 | 15 | 11 | 19 | 12 | 12 | 13 | 11 | 8 | 4 | 3 | 14 | 3 |
| 13 | 5 | 1 | 19 | 6 | 8 | 15 | 2 | 17 | 13 | 7 | 15 | 11 | 14 | 17 | 12 |
| 9 | 1 | 2 | 13 | 4 | 6 | 5 | 8 | 19 | 12 | 9 | 8 | 17 | 7 | 15 | 4 |
| 5 | 12 | 2 | 18 | 11 | 8 | 15 | 6 | 3 | 4 | 2 | 1 | 4 | 6 | 16 | 12 |
| 17 | 18 | 9 | 12 | 5 | 13 | 2 | 8 | 6 | 16 | 10 | 14 | 3 | 4 | 12 | 11 |
| 8 | 6 | 13 | 16 | 5 | 11 | 12 | 8 | 9 | 14 | 7 | 3 | 8 | 9 | 13 | 6 |
| 5 | 6 | 19 | 1 | 7 | 8 | 15 | 4 | 5 | 15 | 3 | 6 | 15 | 8 | 8 | 11 |
| 9 | 18 | 2 | 4 | 3 | 1 | 19 | 8 | 13 | 16 | 12 | 18 | 14 | 19 | 2 | 12 |

## PUZZLE 98

In this grid there are hidden pairs of numbers which add up to 20. They can appear in a horizontal, vertical or diagonal direction. How many can you spot?

LEVEL 3


PUZZLE 88
Can you find the number that fits into the man's head?
See answer 125



41

?

## PUZZLE 101

Can you find the number that fits below the 7 ?


PUZZLE 102
Can you unravel the logic behind this diagram and find the missing number?

See answer 129


Can you work out which diagram is the odd one out?

## PUZZLE 105



Then, one day, the unthinkable happened.



## Why?

LEVEL 3


## PUZZLE 106

A well known work of literature and its author are concealed in these crates. What are they?

See answer 117

## LEVEL 3



These pieces, when fitted together correctly, make up a square. However, one piece is not needed. Can you work out which one it is?

See answer 69

## LEVEL 3

| $\Omega$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\Sigma$ | $\Phi$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Sigma$ |
| $\Phi$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Omega$ |
| $\Omega$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ |
| $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Phi$ |  |  |  | $\Sigma$ | $\Omega$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Omega$ |
| $\Sigma$ | $\Phi$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Sigma$ |  |  |  | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ |
| $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Omega$ |  |  |  | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Phi$ |
| $\Omega$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Phi$ |
| $\Omega$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ |
| $\Omega$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Omega$ |
| $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Sigma$ |
| $\Sigma$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Omega$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Sigma$ |
| $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Omega$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Phi$ |
| $\Sigma$ | $\Omega$ | $\Omega$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Phi$ | $\Sigma$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Phi$ | $\Omega$ |
| $\Sigma$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Sigma$ |
| $\Omega$ | $\Sigma$ | $\Sigma$ | $\Phi$ | $\Omega$ | $\Sigma$ | $\Phi$ | $\Phi$ | $\Sigma$ | $\Phi$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Omega$ | $\Sigma$ | $\Phi$ |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 108

This grid follows a certain pattern. Can you work it out and complete the missing section?

## LEVEL 3



## PUZZLE 110

Can you spot the odd one out?
See answer 148


See


PUZZLE 111
From the above clocks, can you work out what number the minute hand on clock 4 should be pointing at?
 "wob oco -ajos acolos

LEVEL 3

| S7 | E1 | E1 | SE3 | W3 | W1 | S7 | S4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E7 | E2 | E3 | E1 | W2 | N1 | SE1 | SW6 |
| E5 | W1 | SW2 | SE2 | SE1 | W3 | N1 | W6 |
| SE3 | SE4 | NE1 | NE3 | W3 | S2 | S2 | N3 |
| S1 | NW1 | E2 | SW1 | N2 | W3 | W5 | W1 |
| SE1 |  | W | S1 | NE3 | W3 | S1 | SE1 |
| W3 |  |  |  |  |  |  |  |
| E4 | W1 | N3 | SE1 | E2 | NW2 | NW5 | N3 |
| E3 | NE2 | E5 | N4 | N4 | W3 | NW6 | N2 |

## PUZZLE 114

This diagram represents a treasure map. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The letters stand for points of the compass
( $\mathrm{N}=$ North, $\mathrm{S}=$ South, etc), the numbers for the amount of steps you have to take. The finishing point is the square with the asterisk.

Can you find the starting point? There is one complication. You will find that you never land on some of the squares at all. If you cross out those squares on which you have landed you will see that those on which you have not form a letter. Which one is it?

## See answer 68



## PUZZLE 115

Can you unravel the reasoning behind these diagrams and find the missing letter?

LEVEL 3


## PUZZLE 116

Can you work out which two models cannot be made from the above layout?

See answer 122

## LEVEL 3



PUZZLE 117


## PUZZLE 118

Can you find the missing letter?
See answer 151


## PUZZLE 118

The pieces, when fitted together correctly, make up a rightangled triangle. However, one of them is not needed. Can you work out which one it is?

| O | R | O | O | E | R | A | M | I | O | R | I | G | A | A | G |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R | E | M | R | G | O | O | R | I | G | A | M | O | R | G | A |
| I | G | A | E | G | A | O | O | O | A | M | R | I | I | O | M |
| G | A | G | G | O | O | R | M | R | G | I | O | G | G | O | I |
| A | M | E | R | R | R | I | I | A | E | O | M | A | A | A | O |
| M | O | R | A | G | I | G | G | G | R | R | A | M | R | G | R |
| O | R | I | M | A | G | A | A | I | G | I | G | O | O | I | I |
| M | A | G | I | M | A | O | R | M | O | G | I | R | I | R | G |
| O | R | I | G | I | O | R | O | O | A | A | R | G | A | O | A |
| O | G | A | M | G | R | A | O | I | I | M | O | I | M | M | M |
| O | R | I | G | A | M | O | M | O | M | O | M | A | O | A | O |
| O | I | M | A | G | E | R | I | R | M | A | A | M | R | G | R |
| O | R | E | G | A | N | O | G | I | G | A | G | I | G | I | I |
| G | A | R | O | M | I | G | O | G | O | G | G | I | A | R | G |
| I | O | R | A | I | G | A | R | A | R | I | I | O | R | O | A |
| M | O | R | I | G | A | M | O | M | O | O | R | G | R | O | M |

## PUZZLE 120

In this grid the word Origami, written in a straight line, appears only once in its entirety. Can you spot it? It can be written in a horizontal, vertical or diagonal direction. As an addition, there is also hidden a similar looking word that adds a little seasoning to the puzzle. It is, again, written in a straight line. Can you find it?

LEVEL 3


## PUZZLE 121

## Can you find the odd number out?

See answer 128


The above pieces, when fitted together correctly, form a
square. However, one wrong piece is among them. Can you work out which one it is?

See answer 73

## LEVEL 3



## PUZZLE 124

Take a letter from each flower in the order shown. You will get the surnames of five composers. Who are they?

## LEVEL 3

| N4 | NW6 | W9 | W6 | E3 | NE5 | N1 | NE3 | E1 | E4 | N4 | E3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N6 | W8 | SW1 | W5 | NW4 | E4 | NW4 | NE4 | NW1 | N2 | E10 | N5 |
| W4 | N3 | NW2 | N1 | SW2 | NE2 | E6 | N1 | W2 | N3 | W1 | NE5 |
| NW3 | SW2 | S2 | E2 | N4 | N2 | W4 | E2 | E2 | NE2 | N4 | E3 |
| S1 | S2 | S1 | S2 | NE2 | S2 | $\nmid$ | E6 | N3 | SE2 | N2 | E5 |
| W11 | SW4 | S3 | W1 | S4 | S1 | SW4 | S4 | SE1 | S1 | E8 | N2 |
| W5 | NW1 | S2 | W3 | E4 | SW1 | S4 | N1 | S2 | E5 | E2 | S2 |
| S7 | S1 | S7 | SW7 | E1 | SW6 | W3 | SW4 | SW1 | E8 | E5 | SE7 |

## PUZZLE 125

This diagram represents a treasure map. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The letters stand for the directions on a compass. However, there is a complication which is for you to find out. The numbers indicate the number of squares you have to move.

The finishing point is the square with the asterisk. Can you find the starting point? You will also find there are some squares that you don't land on at all. If you cross out those squares on which you land you will see that those on which you do not form a number.

Which one is it?
See answer 145

Can you work out what the missing number is?



Can you spot the odd diagram out?

LEVEL 3


What comes next in this series?

See answer 79

## LEVEL 3



## PUZILE 128

This square is made up according to a pattern. Can you work it out and fill in the missing number ( $1-9$ )?


## PUZILE 130

Can you unravel the reasoning behind this wheel and find the missing number?

See answer 26
See answer 112


E a) 13 hours 29 min
b) 12 hours 35 min
c) 7 hours 12 min
d) 12 hours 7 min

Each of these balloons was taken for a flight, which lasted a different length of time. Can you work out how long the
flight of balloon No. 5794 lasted?

| N | O | Q | R | D | F | G | S | J | T | U | V | K | G | L | T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| V | A | W | U | D | X | Q | R | Z | D | F | M | P | H | J | R |
| S | E | B | C | M | O | T | A | V | N | W | K | Y | I | A | K |
| M | B | G | O | Z | V | J | Y | M | D | L | T | L | Q | C | E |
| O | G | L | B | R | I | N | K | L | V | Q | J | H | L | G | N |
| B | P | D | F | K | P | S | C | A | C | T | M | D | Q | M | K |
| Q | S | U | W | A | C | L | A | K | S | W | U | X | Z | B | F |
| H | L | B | R | Q | J | M | H | R | G | E | R | V | W | S | D |
| R | S | O | K | P | C | N | D | T | Y | R | P | G | O | U | X |
| D | V | K | M | R | T | F | A | F | O | U | E | F | X | T | C |
| L | T | X | Y | K | M | D | H | B | C | I | N | U | O | V | Z |
| B | G | Z | H | E | R | O | Q | L | E | D | A | R | Q | P | A |
| G | U | D | A | V | K | S | U | F | V | Y | F | J | T | A | E |
| T | L | N | W | X | O | Q | V | A | M | T | S | A | L | J | M |
| O | R | B | Y | C | F | S | T | J | Q | U | P | D | H | I | G |
| H | K | Z | L | O | Q | K | B | D | G | X | V | Y | A | Z | B |

## PUZZLE 132

In this grid there are hidden pairs of letters, adjacent to each other in the alphabet. They can be written in a horizontal, vertical or diagonal direction. How many can you spot?


Can you find the missing letter in this square?

See answer 43


## PUZZLE 135

Can you replace the question mark with a letter?
See answer 154

LEVEL 3


## PUZZLE 136

Can you find the missing number?


## PUZZLE 137

Can you unravel the logic behind this diagram and work out what the square with the question mark should look like?

See answer 149
See answer 34


## PUZZLE 188

Can you find the odd one out?
See answer 123

## PUZZLE 139



## LEVEL 3



PUZZLE 140

Pick one letter from each of the flowers in the order shown. You will get the names of five American cities. Which ones are they?

See answer 131

## LEVEL 3

| SEW | SP | ET | SER | ET | SWY | WX | SEW | SS | SQ | SS | WX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EY | SP | NEY | SES | SWX | WW | SWW | SEW | WY | SP | SP | SU |
| SX | SEU | SU | EU | SY | EX | WU | WW | SWX | NEX | WP | SQ |
| EQ | SY | EW | NX | WW | SWY | SW | SWU | WY | NX | SWW | NY |
| SY | EY | ES | NEV | SV | SW | SS | SEY | NEW | WY | SU | ST |
| EO | NU | SY | SWX | NEY | SWX | WU | EX | SY | NW | NW | WQ |
| NET | SX | NV | EX | NY | NV | EV | SV | NEW | WU | WP | NWT |
| NV | SEX | WX | EV | SWV | NWX | NT | SWX | SWY | SWV | WY | NW |
| EU | SEX | NR | NES | SEX | NWY | WT | SWY | NWW | NWT | NEY | SY |
| NET | SEY | NET | WW | SY | WY | NS | NU | NWR | NW | WX | X |
| NEY | NV | ER | EX | WV | NQ | SEY | NU | NQ | WY | NU | WX |
| NET | EX | NX | NW | WX | NEW | NW | NX | NWU | NW | WX | WS |

## PUZZLE 141

This diagram represents a treasure map. You are allowed to stop on each square only once (though you may cross a square as often as you like). When you stop on a square you must follow the instructions you find there. The first one or two letters stand for points of the compass ( $\mathrm{N}=$ North, S $=$ South, etc). What the last letter stands for is for you to find out. The finishing point is the square with the asterisk Can you work out where the starting point is?


Can you complete the last diagram?

| P | A | R | S | I | S | P | A | R | S | P | A | R | P | I | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | A | P | R | S | P | I | S | P | A | R | S | P | A | R | S |
| R | A | P | S | A | R | P | I | S | P | R | A | S | P | S | I |
| I | S | P | A | R | I | P | S | A | R | I | S | P | S | P | A |
| A | S | P | A | R | S | P | A | R | S | I | P | A | R | S | I |
| P | A | R | S | I | S | P | A | R | S | P | A | S | I | S | R |
| P | R | A | S | I | P | A | S | R | P | R | A | S | R | I | S |
| R | S | A | S | I | P | A | R | S | I | S | P | A | I | S | S |
| R | S | A | I | S | R | A | S | R | A | I | S | P | R | A | S |
| R | I | S | I | P | S | A | P | R | A | I | R | S | I | P | I |
| A | R | P | R | A | I | R | S | I | P | S | A | P | R | A | S |
| I | A | P | A | P | A | R | A | R | I | P | I | S | A | I | P |
| S | P | R | I | S | S | I | P | P | S | A | R | P | R | S | A |
| R | P | I | R | S | I | P | S | A | P | R | A | I | R | S | R |
| I | A | S | A | P | R | A | I | R | S | I | P | S | A | P | I |
| S | P | A | R | I | P | A | S | I | R | P | A | R | I | P | A |

## PUZZLE 144

In this grid the word Paris, written in a straight line, appears only once in its entirety. Can you spot it? It can be written forwards or backwards in a horizontal, vertical or diagonal direction.

LEVEL 3


These shapes, when fitted together correctly, make up a letter. Can you work out which one it is?

See answer 77


From the above clockfaces, can you work out what number the minute hand on clock 4 should
be pointing at?


PUZZIE 147
Can you unravel the reasoning behind this wheel and find the missing number?


PUZZLE 148

Can you replace the question mark with a number?

B


## PUZZLE 149

Can you work out which is the odd letter out in each circle?

See answer 121


See answer 53 should find the names of five pop or rock artists and one extra name. Who is it?

## LEVEL 3



See answer 140


Mrs Jones was about to go shopping when she stopped for a chat with a neighbour. Her cheeky son stole her shopping list and encoded it for a joke. When she arrived at the supermarket the list above is what she found.

What was on her original list?

## LEVEL 3



Pick a letter from each flower in the order shown.
You will get the surnames of five pop and rock stars.
Who are they?
See answer 95

## LEVEL 3




## PUZZLE 155

Can you unravel the reasoning behind this wheel and fill in the missing matchstick man?

See answer 50

| 21 | 18 | 22 | 27 |
| :---: | :---: | :---: | :---: |
| 23 | $?$ | 24 | 33 |
| 20 | 29 | 28 | 30 |
| 26 | 31 | 35 | 32 |

## PUZZIE 157

Can you find the missing number in this square?

Can you unravel the logic behind this star and find the missing letter?

## LEVEL 3

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ， |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | T | 区 | 4 | V | $\overline{0}$ | 1 | ， |  |  | $\square$ | V 0 | T |  |  |  |
|  | $\triangle$ |  | 4 |  |  |  |  |  |  |  | 10 | 1 |  |  |  |
|  | L |  | ， | T | ， |  | $\square$ | $\pi$ |  |  | $\square$ | 1 |  |  |  |
|  | O | $\pi$ | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |
|  | 1 | $\square$ | V |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | $\pi$ | 0 | 1 | $\pi$ | $\checkmark$ | $\bigcirc$ |  |  |  |  | 0 |  |  |  |
|  | V | $\overline{0}$ | ， | 1 | 0 | 15 | $\checkmark$ |  |  |  | 05 | J |  | N |  |
|  | $\square$ | ， |  |  |  |  |  |  |  |  | $\checkmark 1$ | 1 |  |  |  |
|  | 0 | 1 | V | $\square$ | 近 |  | $\square$ | 5 |  |  | 00 | 1 |  |  |  |
|  | V |  | $\square$ | T | T | 1 | 10 | 1 |  |  | 亿 | $\bigcirc$ |  |  |  |
|  | 1 |  |  |  |  |  |  |  |  |  | $\square$ | 1 |  |  |  |
| T | 1 |  | $\square$ | 1 | $\bar{\square}$ | T | 10 | 7 |  |  | 10 | 1 |  |  |  |
|  |  |  | 1 |  |  |  |  |  |  |  | $\square$ | 01 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## PUZZLE 158

Can you work out the pattern of this grid and fill in the missing section？

## LEVEL 3 - ANSWERS

## Answer 1

38. Regard the alphabet as a circle. The number is double the number of spaces between the letters.

## Answer 2



Start at the top right and move across the square in a horizontal boustrophedon. The pattern is: miss 1 square, turn by $180^{\circ}$, turn by $90^{\circ}$ clockwise, miss 1 , turn by $90^{\circ}$ clockwise, turn by $180^{\circ}$.

Answer 3
A.


Answer 4
The pattern sequence is shown below. Starting at the bottom right, work in a diagonal boustrophedon (clockwise start).


## Answer 9

He was a goldfish whose bowl got broken, with fatal results.

## Answer 10

8. The two numbers added together give the number the minute hand points at on the next clock. The hour hand points at the number three spaces before.

## Answer 11

10. Multiply the two numbers on the outside of each segment, divide the product by $1,2,3 \ldots 8$ respectively and put the new number in the middle of the opposite segment.

## Answer 12

Start at the top right and move in an anti-clockwise spiral. The dot moves around the square in a clockwise direction.

## Answer 13

Row 1, Column 1. The letter is based on the alphabet backwards, however with $\mathrm{Y}=1, \mathrm{X}=2, \mathrm{~W}=3, \mathrm{~A}=25$, $Z=26$. Its value represents the number of spaces you have to move.


## Answer 14

The pattern sequence is shown below. It starts at the top right and works down in a diagonal boustrophedon (anti-clockwise start).

## \& \& \& \& AP as do as 86 ds加 加 \& \& \& \&

## Answer 15 <br> 

The shapes form a series in order of value:

## $0 \circ \square \diamond$

Of the two shapes at the edge of a segment, the one with the higher value moves into the middle. A vertical arrow is turned by $180^{\circ}$, a horizontal arrow is turned by $90^{\circ}$ clockwise.

## LEVEL 3 - ANSWERS

## Answer 16

The minute hand should be on the 4 , the hour hand on the 8 . The numbers the hands are pointing at are doubles of each other. The lower number moves on by 1 each time, with the hands being reversed.

## Answer 17

A chest of drawers.

## Answer 18 - See Page 291

## Answer 19

5. Three numbers in a horizontal line add up to the fourth number.


Answer 20 The pattern sequence is:


Start at top left and follow the pattern in a clockwise spiral.

## Answer 21

His wife and given birth prematurely. He made her breakfast and prepared a bottle for the baby.

## Answer 22

B.

## Answer 23

Costner, Cushing, Dunaway, Garland, Hepburn. The extra one is Domingo.

## Answer 24 - See page 292

The extra word is Arrivederci.

## Answer 25

5. Add both numbers in one segment, add the digits of that sum and place new number in the next segment going clockwise.

## Answer 26

8. Three numbers in a vertical line are added together to make up the forth number.

## Answer 27

Both hands should be pointing at the 10. It is based on the 24 hour clock. The two hands on the first clock multiplied result in a product of $36.12+24$ (the equivalent of 12 on the 24 hour clock) equals 36 . The same is repeated with clocks 3 and 4 . $(4 \times 8=10+22)$.

## Answer 28

Hockney, Matisse, Gauguin, Hogarth, Vermeer. The extra one is Erasmus.

## Answer 29

A. Multiply the first and last digit, subtract the second digit for hours, add the third digit for minutes.

Answer 30

|  |  | 2 |
| :--- | :--- | :--- |
| 9 |  | 7 |
| 4 | 8 | 3 |

## Answer 31

3. Each letter has a partner in the other triangle, which is its value in the alphabet backwards $(A=26, Z=1)$. The number equivalent for $C$ should be 24 (the letter for 3 is X ).

## Answer 32

The two vases were the only surviving example of work by a famous potter. The man already owned one and by smashing the other he ensured his vase would be unique.

## Answer 33

The starting point is at Row 1, Col 1. The number is 31 . Start at the finishing point and work back.

## Answer 34

It should be blank. Start at the bottom right and go round the square in an anti-clockwise spiral. The pattern is: $\bullet \mathbf{X}$ blank $\bullet \mathbf{X}$ -

Answer 35

| D | 3 |
| :---: | :---: |
| F | 7 |

The pattern starts at the top right and goes in diagonal stripes from left to right.

## LEVEL 3 - ANSWERS

| I | D | I | A | I | D | D | A | I | A | I | I | D | A | I | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | I | A | I | A | D | A | A | D | A | I | I | A | D | A | I |
| A | A | D | I | I | A | D | D | A | D | D | A | I | D | I | A |
| I | A | A | I | D | I | D | D | D | I | A | D | A | A | D | A |
| D | A | D | A | I | D | I | A | D | D | A | D | D | A | I | D |
| I | A | A | D | A | D | A | I | A | D | D | A | D | I | D | A |
| A | D | I | A | I | A | D | D | A | I | I | A | D | A | I | D |
| D | A | I | D | D | A | D | D | D | A | I | D | D | I | D | D |
| D | A | D | A | D | D | A | D | D | A | A | D | A | A | D | I |
| I | A | D | D | A | I | A | D | D | A | A | D | D | A | D | I |
| D | A | A | D | A | D | A | D | D | D | D | I | A | I | D | I |
| A | D | A | A | D | A | D | A | D | A | D | A | D | A | D | A |
| I | A | A | D | A | A | I | A | I | D | A | A | D | D | A | D |
| D | I | D | A | D | D | D | I | D | A | A | D | I | D | D | A |
| I | D | A | D | D | D | A | A | I | D | I | D | A | A | I | A |
| A | I | A | D | A | A | D | I | D | A | D | I | I | D | I | D |

## Answer 36

7. Multiply the two numbers on the outside of each segment, divide their product by 2 and place the new number two segments ahead in the middle.

## Answer 37

83. Add the values of the letters in each box, based on the alphabet backwards (i.e. $Z=1, a=26$ ) and place the sum, with the digits reversed two squares ahead.

## Answer 38

$\mathbf{C}$ and $\mathbf{F}$.

## Answer 39

4. The numbers on the clockfaces add up to $15,12,9$ and 6,3 less each time.

## Answer 40

C. Add together the values of the letters $(Z=1, A=26)$ and subtract the individual digits from the sum.

## Answer 41

Anouilh, Moliere, Ionesco, Osborne, Marlowe. The extra name is Connery.

## Answer 42

She rubbed poison on one side of the knife blade.

## Answer 43

K. Add the values (based on the alphabet forward) of the letters, convert their value into a new letter (based on the alphabet backward) and put it two squares ahead.

## LEVEL 3 - ANSWERS



Answer 24

## Answer 44

9. Multiply the two outer numbers in each segment, and divide the product by 2 and 3 alternately. Place the new number in the middle of the opposite segment.

## Answer 45

4. Multiply the two numbers in the bar, deduct the sum of the same numbers, and put result in the next square but one.

## Answer 46

Celsius, Doppler, Faraday, Hawking, Pasteur.
The extra one is Kerouac.

## Answer 48

B. Based on the values of the letters in the alphabet ( $Z=1, A=26$ ), take the first and last letter of the make of the car.

## Answer 49

The starting point is Row 1, Col 1. The hidden letter is shaped like an L .

| S3 |
| :---: |
| SE2 |
| N2 |
| N2 |

## LEVEL 3 - ANSWERS

| 5 | 3 | 6 | 4 | 4 | 3 | 5 | 7 | 5 | 7 | 9 | 2 | 2 | 5 | 8 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 9 | 8 | 9 | 6 | 1 | 5 | 8 | 6 | 6 | 8 | 3 | 7 | 6 | 7 | 4 | 4 |
| 2 | 1 | 5 | 7 | 8 | 3 | 1 | 3 | 5 | 1 | 6 | 6 | 8 | 9 | 8 | 6 |
| 7 | 6 | 2 | 9 | 1 | 1 | 8 | 3 | 1 | 5 | 1 | 7 | 5 | 3 | 4 | 1 |
| 8 | 5 | 6 | 6 | 2 | 4 | 4 | 8 | 3 | 8 | 4 | 7 | 1 | 6 | 1 | 8 |
| 7 | 6 | 2 | 2 | 5 | 2 | 3 | 7 | 4 | 5 | 8 | 5 | 7 | 6 | 3 | 1 |
| 7 | 9 | 3 | 1 | 8 | 4 | 5 | 4 | 7 | 7 | 9 | 4 | 8 | 5 | 6 | 3 |
| 3 | 6 | 8 | 8 | 2 | 9 | 8 | 8 | 2 | 5 | 7 | 2 | 1 | 8 | 3 | 5 |
| 5 | 6 | 9 | 6 | 5 | 3 | 4 | 7 | 4 | 7 | 4 | 2 | 6 | 6 | 5 | 5 |
| 1 | 6 | 3 | 2 | 3 | 4 | 5 | 8 | 1 | 1 | 2 | 4 | 9 | 3 | 2 | 7 |
| 5 | 8 | 9 | 6 | 1 | 8 | 3 | 6 | 9 | 3 | 6 | 3 | 5 | 4 | 9 | 4 |
| 8 | 4 | 5 | 6 | 7 | 1 | 5 | 1 | 8 | 5 | 8 | 3 | 1 | 2 | 5 | 7 |
| 7 | 2 | 2 | 9 | 2 | 2 | 4 | 7 | 4 | 9 | 4 | 1 | 8 | 6 | 7 | 8 |
| 2 | 4 | 3 | 9 | 5 | 6 | 7 | 8 | 5 | 8 | 3 | 2 | 7 | 5 | 6 | 1 |
| 5 | 9 | 4 | 3 | 4 | 2 | 6 | 1 | 7 | 3 | 4 | 9 | 2 | 6 | 9 | 1 |
| 3 | 2 | 5 | 8 | 1 | 3 | 2 | 5 | 3 | 8 | 3 | 5 | 3 | 1 | 2 | 7 |

Answer 47 44 pairs

## Answer 50

Add the limbs of the figures on the outside of each segment and put the new figure, minus one limb into the middle two segments before.

## Answer 51

Between the 4 and 5 . The two numbers the two hands point to on each of the clocks multiplied has a product of $36.41 / 2 \times 8=36$.

## Answer 52

The hidden letter is $X$, and the pattern is a vertical boustrophedon starting from the bottom left.

## Answer 53

72. Add the two numbers in each bar, multiply the digits of that sum and put the product three squares ahead.

## Answer 54 - See page 294

There are 55 pairs.

## Answer 55

D. Take the values of the first two letters of each starting town, the first based on the alphabet forward ( $\mathrm{A}=1, \mathrm{Z}=26$ ) and the second on the alphabet backward $(A=26, Z=1)$. Add the values together. The new letter of that value will be the first letter of the new town.

## Answer 56

Their mother had produced triplets. However, being poor she had been unable to bring them all up and had given one up for adoption. Nevertheless, the family resemblance was so strong that the men recognized their long lost brother.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | Q | D |  | H | K | F | L | G | M | M | R S | S A | A B | B |  |
| Z |  | E | X |  | A L |  |  | O |  |  | A B | B G | G B | $B \bigcirc$ | Q C |  |
|  |  | R A |  |  |  | B |  |  |  |  | N | KA | A 0 | O | R |  |
|  |  | C | G |  |  | A | E |  |  | Z | Z B | B | C ${ }^{\text {B }}$ | B F | FM |  |
| $\bar{D}$ |  | 0 |  |  |  | D R | R |  | K |  | T | , | W/A | A W | N |  |
|  | A | A E | 0 |  | d | R | S | A | 0 |  | G A | A 0 | OE | F | G) D |  |
|  | K | K | A |  |  |  | Z |  |  |  | FJ | F | F 0 | 0 |  |  |
|  | S | S | U |  |  | B | C |  |  |  | VO | O $\times$ | X S | S T |  |  |
|  |  | N | G |  | F J | J | D |  | Z |  | A | Q 1 | M | M |  |  |
|  | Q | Q R | R M |  | 0 | Q | A |  | V |  | Y D | DE | E F | FB | S |  |
|  |  | 1 N | , X |  |  | Z | B |  | C | D | D | E ${ }^{\text {b }}$ | E A | A B | C |  |
|  |  | kO | A |  | B | C | F | X | G |  | H |  | Z K | K L |  |  |
|  |  | QP | R |  |  | W |  |  | U |  | K | L A | A ${ }^{\text {P }}$ |  |  |  |
|  |  | A | A |  | G H | H |  | N | A |  | EX | X | DP | P $\bar{\square}$ |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Answer 54
55.

## Answer 57

Row 1, Col 1 . The last letter represents the number of steps you have to go, based on the alphabet
backward, however with $\mathrm{Y}=1, \mathrm{X}=2, \mathrm{~W}=3, \mathrm{~A}=25$,
$\mathrm{Z}=26$. Start at the finishing point and work back.

## Answer 58

c.

## Answer 59 - See opposite page

## Answer 60

The hidden letter is $F$. The pattern is diagonal stripes starting from the top right and going up from right to left.

## Answer 61

B. In the first name, each consonant is worth 1, and each vowel 2; in the second name, consonant $=3$, vowel $=4$.

## Answer 62

Hendrix, Houston, Madonna, Manilow, Presley. The extra one is Tolkein.

## Answer 63 - See Page 296

There are 51 pairs.

## Answer 64

$\mathbf{B}$ and $\mathbf{E}$.

## LEVEL 3 - ANSWERS



## Answer 59

## Answer 65 - See Page 297

The extra word is Oregano.

## Answer 66

He was captain of a river boat ferry. The globe he went round was a decorative one he had in his cabin.

## Answer 67 - See Page 298

There are 60 pairs.

## Answer 68

Row 1, Col 1. The hidden character is A. Start at the finishing point and work backwards.

## Answer 69

G.

## Answer 70

D. The striped section moves clockwise by 1,2,3 and 4 sections (repeat). Each time it moves by 2 and 4 sections the pattern is reflected. The dot moves 2 sections clockwise and 1 section anti-clockwise alternately.

Answer 71 - See page 299

Answer 72
Rossini, Puccini, Debussy, Berlioz, Corelli. The extra one is Cezanne.

## LEVEL 3 - ANSWERS

|  |  | 16 |  | 10 |  |  |  |  |  |  |  |  | 612 | 219 |  |  | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | 5 | 12 | 10 | 14 | 47 | 79 | 91 | 191 | 12 | 6 | 13 | 33 | 38 | 8 T | 7 7 | 7 | 6 |
| 16 | 18 | 3 | 16 |  |  | ( | 7 | 4 |  |  |  | 59 | 914 | 145 |  |  |  |
|  | 8 | 8 | 3 |  |  | $1 \bigcirc$ | ¢ | 8 |  |  | 19 | 913 | 1311 | 17 | c |  |  |
|  | 8 | 11 | 19 |  |  | 10 |  | 14 | 4 |  |  | 57 | 716 | 1613 | 13 | 9 |  |
|  |  | 11 | 4 | 3 |  | 017 | 179 | 9 | 18 | 7 |  | 36 | Q 12 | 25 | 5 |  |  |
| 11 | 4 | 9 | 12 |  |  | 418 | 181 | 12 | 9 |  |  | 415 | 1514 | 417 | 17 |  |  |
| 17 | 5 | 4 | 18 | 3 |  | 18 | 6 |  |  |  |  | 415 | 158 | 811 | 11 |  |  |
| 4 | 6 |  | 19 | 15 |  | 119 | 191 | 121 |  |  | 311 | 18 | 84 | 43 |  |  |  |
| 13 | 5 | ¢ | 19 | 6 |  |  | 1 |  |  |  |  | 815 | 1511 |  |  |  |  |
| 9 | 1 |  | 13 | 4 | 6 | 6 | 5 |  |  |  | 29 | 98 | 817 | 177 | 715 |  |  |
| 5 |  | (2) |  | 11 |  | 815 | 15 | 6 |  |  |  | 21 | 14 | 46 |  |  |  |
| 17 | 18 | 9 | 12 |  |  | 3 | 2 | 8 |  |  |  | 114 | 143 | 34 |  |  |  |
| 8 | 6 | 13 | 16 | 5 |  | 112 | 128 | 8 |  |  |  | 73 | 38 | 89 | 913 |  |  |
|  |  |  | 1 |  |  |  | 15 |  |  |  |  |  | 615 | 158 | 8 |  |  |
|  |  | 2) | 4 |  |  |  |  |  |  |  |  |  | 1818 |  |  |  |  |

Answer 73
D.

## Answer 74

20. Take two numbers in adjacent circles. If both are odd, add them. If both are even, multiply them. If one number is odd and one is even take the difference. Put the new number in the overlapping section.

## Answer 75

C. All the others, when reflected on a vertical line, have an identical partner.

## Answer 76

Belmondo, Pfeiffer, Rampling, Redgrave, Travolta.


Answer 78
D and E.

## Answer 79

E. The symbols turn by $180^{\circ}$ and $90^{\circ}$ alternately. The circle and square swap places, the diamond and rectangle swap shading.

## LEVEL 3 - ANSWERS

| O | R | O | O | E | R | A | M | I | O | R | I | G | A | A | G |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R | E | M | R | G | O | O | R | I | G | A | M | O | R | G | A |
| I | G | A | E | G | A | O | O | O | A | M | R | I | I | O | M |
| G | A | G | G | O | O | R | M | R | G | I | O | G | G | O | I |
| A | M | E | R | R | R | I | I | A | E | O | M | A | A | A | O |
| M | O | R | A | G | I | G | G | G | R | R | A | M | R | G | R |
| O | R | I | M | A | G | A | A | I | G | I | G | O | O | I | I |
| M | A | G | I | M | A | O | R | M | O | G | I | R | I | R | G |
| O | R | I | G | I | O | R | O | O | A | A | R | G | A | O | A |
| O | G | A | M | G | R | A | O | A | I | M | O | I | M | M | M |
| O | R | I | G | A | M | O | M | O | A | O | M | A | O | A | O |
| O | I | M | A | G | E | R | I | R | M | A | A | M | R | G | R |
| O | R | E | G | A | N | O | G | I | G | A | G | I | G | I | I |
| G | A | R | O | M | I | G | O | G | O | G | G | I | A | R | G |
| I | O | R | A | I | G | A | R | A | R | I | I | O | R | O | A |
| M | O | R | I | G | A | M | O | M | O | O | R | G | R | C | M |

Answer 65
Oregano

Answer 80


## Answer 81

19. Write the alphabet in a circle. The numbers represent values of letters based on the alphabet backwards ( $\mathrm{A}=26, \mathrm{Z}=1$ ). Start at A , miss $2, \mathrm{D}(=23)$, miss 2, G, etc.

## Answer 82

C. A and D, and B and E are pairs. When reflected against a vertical line and turned, they are identical.

## Answer 83

D. These are the first letters of Do, Re, Mi, Fa, So, La, Tee, etc.

## Answer 84

72. Halve the number on the top left, multiply the number on the top right by 3 . Multiply the two resulting numbers with each other, and put the product in the bottom square.

## Answer 85

A la Recherche du Temps Perdu by Marcel Proust.

## LEVEL 3 - ANSWERS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | W | U |  |  |  | Q |  |  | Z D | D F | FM |  |  |  |  |  |
| $\mathrm{S}$ |  | B | C | C |  |  | T | A | V | $\checkmark$ | 1 W | N | ${ }^{\circ}$ |  |  |  |  |
|  |  | G |  |  |  |  |  |  |  | V0 | L |  |  |  | Q | C |  |
|  | G | L |  | R |  | , | N | \% | D | V | VQ | Q J | J |  | A |  |  |
|  | B | D | F | K |  | P | S | C |  |  | C 1 | T M | M ${ }^{\text {D }}$ |  |  | 1 |  |
|  | S | U | W | NA |  |  |  | A |  | K | 51 | C | \$ |  | Z | B |  |
| $\frac{2}{H}$ |  | B |  |  |  |  |  | H | R | Q | G E | ER |  |  | W | S |  |
|  | 5 | 0 | K | - |  | C | N | D | T | T Y | Y R | P P | P |  | 0 |  |  |
|  | V |  | M | M R |  | T | F | A | F | F 0 | $0 \cup$ | U | E |  | X | T |  |
|  |  |  | Y | K |  | M |  | H | B | 30 | 01 | 1 N |  |  | 0 | $V$ |  |
|  |  |  | H | H |  |  | 0 | Q |  |  | OD | $)^{\text {A }}$ | A |  |  |  |  |
|  | 0 |  | A | A V |  |  |  | O |  | EV | $\checkmark Y$ | Y F | F | JT |  | A |  |
|  |  |  | V | - | $\bigcirc$ | O | Q | V |  | A M | $1 T$ | 7 | S | A | L |  |  |
| 0 |  |  | , ${ }^{\text {a }}$ | C |  |  |  | D |  |  | Q 0 | dP |  |  | H | © |  |
|  |  | 右 | U | 0 |  |  |  | B |  |  |  |  |  |  |  | Z |  |

Answer 67
60.

## Answer 86

K. $K$ is the same number of spaces in the alphabet from $H$ and $N, O$ and $G$, and $E$ and $Q$.

## Answer 87

I. These are the second letters of the numbers one to five.

## Answer 88

B. Each column contains faces with 4 different types of hair, pairs of ears, eyes, mouths and face shapes.

## Answer 89

25. Starting at the top left hand corner, work through the square in a diagonal boustrophedon pattern (clockwise first), subtracting 3 and adding 5 alternately.

## Answer 90

11. Multiply the number of sides of each number by 3 , and then subtract the number printed.

## Answer 91

W. Starting from $P$ go back 3 spaces in alphabet (M), forward 3 (S), back $5(\mathrm{~K})$, forward $5(\mathrm{U})$, back 7 (I), forward 7.

## Answer 92

The colours of the rainbow alternate with random colours. However, yellow and green have been transposed.

## Answer 93

S. D is the 4 th letter from the start of the alphabet, W is the 4th from the end. $F$ is the 6 th from the start, $U$ the 6th from the end, etc.

## LEVEL 3 - ANSWERS

| P | A | R | S | I | S | P | A | R | S | P | A | R | P | I | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | A | P | R | S | P | I | S | P | A | R | S | P | A | R | S |
| R | A | P | S | A | R | P | I | S | P | R | A | S | P | S | I |
| I | S | P | A | R | I | P | S | A | R | I | S | P | S | P | A |
| A | S | P | A | R | S | P | A | R | S | I | P | A | R | S | I |
| P | A | R | S | I | S | P | A | R | S | P | A | S | I | S | R |
| P | R | A | S | I | P | A | S | R | P | R | A | S | R | I | S |
| R | S | A | S | I | P | A | R | S | I | S | P | A | I | S | S |
| R | S | A | I | S | R | A | S | R | A | I | S | P | R | A | S |
| R | I | S | I | P | S | A | P | R | A | I | R | S | I | P | I |
| A | R | P | R | A | I | R | S | I | P | S | A | P | R | A | S |
| I | A | P | A | P | A | R | A | R | I | P | I | S | A | I | P |
| S | P | R | I | S | S | I | P | P | S | A | R | P | R | S | A |
| R | P | I | R | S | I | P | S | A | P | R | A | I | R | S | R |
| I | A | S | A | P | R | A | I | R | S | I | P | S | A | P | I |
| S | P | A | R | I | P | A | S | I | R | P | A | R | I | P | A |

## Answer 94

$\mathbf{N}$. The letters spell Wittgenstein.

## Answer 95

Carlisle, Costello, Harrison, Knopfler, Morrison.

## Answer 96



The pattern sequence is as below. It starts at the bottom right and works up in a horizontal boustrophedon.

$$
\Delta \Delta \square \square \square 刃 』 \boxtimes \square
$$

## Answer 97

M. The value of the letter on the bottom left, based on its alphabetical position, minus the value of the letter on the bottom right, results in the letter in the middle. Incidentally the outer letters spell Mark Twain backwards but this is of no significance.

## Answer 98

F. Each shape changes into a shape with two extra sides. The order of the shapes is reversed.

## Answer 99

20. Left hand $X$ right hand $\div$ waist $=$ head. Left foot $X$ right foot $\div$ waist $=$ head.

## Answer 100

PUTTEN. The initials can be rearranged to form Paris.

## LEVEL 3 - ANSWERS

## Answer 101

P. Write the alphabet in a circle. NOP are the letters diametrically opposite ABC .

## Answer 102

C. The letters spell Henry Mancini backwards.


It starts at the bottom right and works up in a diagonal boustrophedon.

## Answer 104

6. Divide the number of sides of the letter by 2 and add the value of the letter, based on its position in the alphabet.

## Answer 105

Brezhnev, Disraeli, Thatcher, Adenauer, Pompidou.

## Answer 106

$\mathbf{U}$. The letters spell Art Garfunkel.

## Answer 107

$\mathbf{R}$. These are the second letters of the days of the week.

## Answer 108

56. Take $2 / s$ of the number in the top left square and multiply it by twice the number in the top right square. Put the new number in the bottom square.

## Answer 109

M. Starting with the middle triangle and letter A move round the diagram in a clockwise direction. Move then on to the diagram on the right and last to the diagram on the left. Miss three letters with each move.

## Answer 110

C. It is the only circle with an asymmetrical shape.

## Answer 111

A. The edges of all the symbols in one square added together, increase by 2 with each square (i.e. $12,14,16$, 18,20 )

## Answer 112

16. The numbers form two series: $3,6,9,12$ and 4,8 , 12, 16.

## Answer 113

9. The alphabet equivalents make up the name Nagasaki.


## Answer 114

The pattern sequence is shown below. It starts at the top left and works downwards in a vertical boustrophedon.

Answer 115
32. All the others have a partner, with the digits being reversed.

## Answer 116

14. Alternate numbers form two series: $9,12,15$ and 18 , and $14,16,18$ and 20.

## Answer 117

A Midsummer Night's Dream by William Shakespeare.

## Answer 118

Bruckner, Gershwin, Schubert, Schumann, Sibelius.

## Answer 119

I. Start at C and move forward by 5 letters and backward by 3 letters alternately in a clockwise direction.

## Answer 120

T. E is the 5 th letter from the start of the alphabet, V is the 5 th from the end. $D$ is the 4 th from the beginning, $W$ is the 4th from the end, etc.

## LEVEL 3 - ANSWERS

## Answer 121

$\mathbf{J}$ and $\mathbf{Z}$. The values of the letters in the bottom circle are squares of the values of the letters in the top circle. $J$ squared is 100.

## Answer 122

$\mathbf{B}$ and $\mathbf{F}$.

## Answer 123

D. An anti-clockwise spiral points up or left, a clockwise spiral down or right. A round shape has a small shape with straight lines attached, a straight-sided shape has a small shape with round lines attached to it.

## Answer 124

410. In all the others the first two digits added result in the third digit.

## Answer 125

359. Reading left to right and bottom to top, subtract 17 each time.

## Answer 126

729. The numbers $5,6,7,8$ and 9 are cubed.

## Answer 127

A and N. The series is B, D, F, H, J (2, 4, 6, 8, 10). Add 1, $2,3,4,5$ respectively to the values to get the letters in the second triangle.

## Answer 128

91. All the others are prime numbers.

## Answer 129

56. (Head $x$ left foot $) \div$ waist $=$ right hand; (head $x$ right foot $) \div$ waist $=$ left hand $) .(14 \times 15) \div 5=42$; $(14 \times 20) \div 5(56)$.

## Answer 130

D. The whole figure is reflected on a horizontal line. Any shape with straight lines is then rotated by $90^{\circ}$ clockwise and a dot in a round shape disappears.

## Answer 131

Columbus, Honolulu, Portland, San Diego, Syracuse.

## Answer 132

5 and 625. The cubes of 7,9 and 13 go into the bottom circle, the squares of 18,26 and 54 go into the top circle.

## Answer 133

11. It is a series of prime numbers.

## Answer 134

S. Add the values of the letters on the top and right, and the values of the letters on the left and bottom. Subtract the second sum from the first, and put either the new number or alternately the letter based on the value of that number into the middle.

## Answer 135

$\mathbf{O}$ and $\mathbf{V}$. The others spell Charlie Chaplin.

## Answer 136

E. The squares with lines from the bottom left to the top right have arrows pointing up or right. Squares with lines from the bottom right to the top left have arrows pointing down or left.

## Answer 137

Z. In alternate shapes go: top, left, middle, right, bottom, and left, top, middle, bottom, right. In both cases miss out one letter.

## Answer 138

M. Add 9 to the value of each letter in the first circle. $C+9=L$.

## Answer 139

D. The formula is: left + (middle $\times$ right $)=$ top + (middle $x$ bottom), but in D, the answers are 26 and 25 respectively.

## Answer 140

F. A round shape turns into a shape with straight sides and vice versa. Anything pointing down changes to pointing up and vice versa.

## LEVEL 3 - ANSWERS

## Answer 141

The formula is (right $\times$ left - top) $\times$ black fraction of circle $=$ bottom .

## Answer 142

72. These are twice the squares of numbers 1 to 9 .

## Answer 143

$\mathbf{K}$. Starting with the middle square and moving in a clockwise direction, miss 2 letters in the first diagram, miss 3 in the second one, etc.

## Answer 144

$\mathbf{N}$. in the lower triangle. The others spell George Orwell.

## Answer 145

The starting point is at row 3 Col 9 .
The hidden number is 100 .

| W8 | W5 | NW4 | E4 | NE4 | NW1 | N2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N3 | N1 |  | NE2 | N1 |  | N3 |
| SW2 | E2 |  | N2 | E2 |  | NE2 |
| S2 | S2 |  | S2 | E6 |  | SE2 |
| SW4 | W1 | S4 | S1 | 54 | SE1 | S1 |

## Answer 146

27. The numbers increase by $3,4,5,6$ in an anti-clockwise direction.

## Answer 147

24 and $\mathbf{Q}$. Take the value of the letters in the top triangle, based on the reversed alphabet ( $Z=1, A=26$ ) and take 5 away. Put the new numbers in the bottom triangle. Take the value of the letters in the bottom triangle, based on the alphabet forwards ( $\mathrm{A}=1, \mathrm{Z}=26$ ), and add 3. Put the new numbers in the top triangle. For $Q$ to fit these criteria, the number 20 would need to be in the upper triangle, and for 24 to fit, the letter would need to be U.

## Answer 148

D. The formula is: (right $x$ shaded fraction of left) (top $\times$ shaded fraction of bottom) $=$ middle shape's number of sides. Therefore, in example D: $(18 \times 2 / 3$ $[12])-(12 \times 3 / 4)[9]=3$. The answer shape should be 3 -sided, so it is the odd one out.

## Answer 149

4. Add the two top outer numbers from the upper boxes and the two bottom numbers from the lower boxes and put the sum in the inner box diagonally opposite. The third outer number is obtained by subtracting $3,4,5$, and 6 from the adjoining answer, starting from the top left and reading clockwise. The answer is obtained as follows: $6+4$ (top right's two outer top numbers) $=10$ (bottom left's inner numbers) $-6=4$.

## Answer 150

T. It spells Marcel Proust.

## Answer 151

C. It spells Henri Toulouse-Lautrec.

## Answer 152

A. Multiply each shaded fraction with the shaded fraction opposite. The number in the middle is the ratio of the two resulting fractions. A is the odd one out because $2 / 3 \times 1 / 2=1 / 3$; $1 / 2 \times 3 / 4=3 / 8$, and the ratio is not 1 .

## Answer 153

$\mathbf{Z}$. Add the values of the three outside numbers, based on their position in the alphabet, and place their sum in the inner box opposite.

## Answer 154

Y. It spells Aldous Huxley.

## Answer 155

7. Add the three numbers on the outside of each square (A). Add the digits of the sum (B). Divide A by $B$ and place in the small square.

## Answer 156

V. It spells Anton Chekhov.

## Answer 157

L. Start at the top left of each diagram, move to the top right, bottom and on to the new diagram. Move forward by 3 letters, back by 2 , forward by 4 , back by 2 .

## LEVEL 3 - ANSWERS

## Answer 158

1. Carrots
2. Shampoo
3. Chicken
4. Biscuits
5. Dog food
6. Chocolate cake
7. Mushrooms
8. Orange juice
9. Vegetable soup
10. Tissues

## YOUR PUZZLE NOTES

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Each symbol in the grid has a numerical value. Work out what those values are and replace the question mark with a number. See answer 7, Level 1


Can you work out which mathematical signs should replace the question marks in this diagram? You have a choice between - or + . See answer 10, Level 1


## You don't have to be a genius ... <br> .. but it helps!


[^0]:    ## Answer 112

    G. The figures are vertical images of each other but with shaded and unshaded elements becoming unshaded and shaded respectively.

