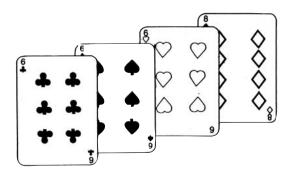
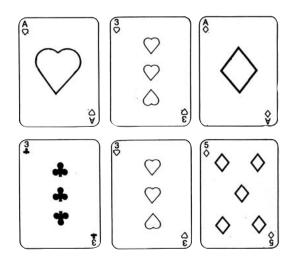
40 "Life's funny", said an old friend when I bumped into him the other day. "Listen to this, I was born in March, yet I celebrate my birthday in August, and last February I married my mother".

How is this possible?

41 Study the top cards and find what city is represented by the bottom cards.





42 Which is the odd one out?

A Cassius

B Cassia

C Casca

These are words that contain synonyms. If you remove some of the letters from the original word, you are left with a synonym of that word. Take, for example, the word CALUMNIEs. If you delete the 1st, 2nd, 4th, 5th and 6th letter you are left with LIES – a synonym of the original word. Here are a few more examples for you to try:

CATACOMB **FACETIOUSNESS** CHARIOT FATIGUE CHOCOLATE **HURRIES DELIBERATE ILLUMINATED** DESTRUCTION **INSTRUCTOR** LATEST **ENCOURAGE EVACUATE** MASCULINE **EXHILARATION PASTEURIZED**

44 These 12 objects can be placed in 3 sets of 4. The sets are: 4 DOGS, 4 ANIMALS, 4 REPTILES

CLUMBER BONGO TUMBLER ROEBUCK POINTER LURCHER AGUTI TAIPAN TERRIER CAIMAN SAURIAN PADDOCK 45 Alan and his sister Sue had gone to meet their mother at the railway station. Suddenly Sue gasped out loudly in surprise and remarked to her brother, "Do you see that man in the crowd over there?" "Its Brian", said Alan, "I don't believe it, quick, we must go and introduce ourselves".

Neither Alan nor Sue had ever met Brian before, nor had they ever seen a photograph or painting of him, neither was he a famous person.

How is this possible?

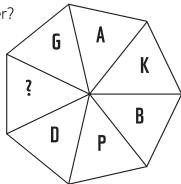
46 These objects can be placed in 3 sets of 4. The sets are: 4 VEGETABLES, 4 INSECTS, 4 REPTILES

MONITOR BLACK FLY SKIRRET MAY BUG MILLIPEDE BASILISK COCKCHAFER PIMENTO CROCODILE BROCCOLI ANACONDA COLEWORT

47 What comes next in this series?

ISITPNAADLIIYN-

48 What is the missing letter?



49 These 12 creatures can be placed in 3 sets of 4. The 3 sets are: 4 ANIMALS, 4 FISH, 4 BIRDS

DOTTREL	SQUID	LAMPREY	BUBALIS
DASYPUS	BITTERN	BANTING	CHAFFINCH
MERLING	HAMSTER	GROUPER	DOVE

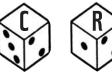
- **50** Decide which of these statements are true and which are false.
 - A Sydney is the capital of Australia.
 - B Julius Caesar invaded Britain in 55 BC.
 - C. Beethoven wrote only one opera.
 - D Gauguin was a Spanish post-impressionist painter.
- **51** Which of the following statements are true and which are false?
 - A. At 12.30 the hands of a clock form an angle of 180 degrees.
 - B. 15/16th is the same as 0.9375.
 - C. The Andes are south of the Rockies.
 - D. 15 capital letters of the alphabet consist entirely of straight strokes.

52 If



is WING

and







is HULK

what is this?









53 If FIVE+TWENTY = TWENTY-FIVE

TWELVE = TWENTY

NINE+TEN = FIFTEEN

What is

TWENTY-FIVE-TWELVE?

Choose one of these:

FIVE TEN THIRTEEN FIFTY NINE ELEVEN

54 What should go into the empty square?

A 7 M 11 H 20

9 H 6 L 4 N

1 G 13 K 8

55 What do these dates have in common?

15 February 19842 July 198316 December 1983

56 How many mistakes can you find here?

In the town their were shops of every descrption, but the biggest shop was stocked with such things as lawn mower's and garden tools. Two shops were managed by Stan and Bert, the son-in-laws of a town counsillor. Stan sold objects d'art, while Bert's shop was stocked with electricle goods. In the High Street their was a seathing mass of people and vehicls. At the end of the street was a monument in commemoration of the local boys who were killed in the the last war.

57 A man was working on a night shift when he suddenly received a telephone call giving him some information causing him to dash home at breakneck speed.

On bursting into his bedroom quite breathless he found his informant was quite correct and his wife was in bed with someone he had never even clapped eyes on before.

However, far from being angry he greeted them both with a friendly smile and a few hours later was bringing them both breakfast in bed.

What is the reason for this?

Lucretia Borgia invited a prospective victim to lunch. They ate a hearty meal of roast venison, with a selection of fresh vegetables, all washed down with the finest wine imported from Bordeaux in France.

After the meal they finished off with figs and grapes freshly picked.

"Just one apple left", said Lucretia, "I insist you have that. "No", said the guest, "I couldn't". "Tell you what", said Lucretia, "we will share it", and promptly sliced it neatly in two with her sharpest knife. The guest and Lucretia started to eat their respective halves when suddenly the guest's eyes rolled towards the ceiling and he keeled over backwards stone dead.

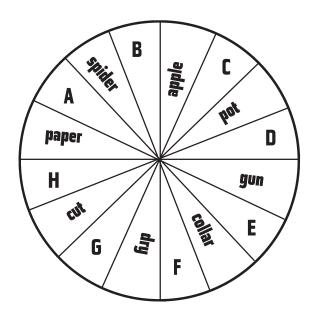
How did she do it?

Take a word from each column and find eight reptiles, each of which has a name of three words:

A	В	C
Green	Nosed	Toad
Long	Tree	Snake
Spade	Eating	Boa
Rat	Lined	Snake
Snake	Tree	Skink
Egg	Foot	Frog
Four	Tailed	Snake
Green	Eyed	Viper

[&]quot;Another victim successfully despatched," thought Lucretia.

60 Find words for A, B, C, D, E, F, G and H.



- **61** Which of these statements are true and which are false?
 - A. When the time is either 5.50 or 10.30 the hands of a clock form an angle of 120 degrees.
 - B. London is further south than Newfoundland.
 - C. Greenland is the largest island in the world.

62 Which of the following words is the odd one out?

Chocolate

Biscuit

Lemonade

Jelly

Cake

The name of a dog can be found in each of these sentences. See if you can find them all. For example, in the following sentence the word 'corgi' is hidden.

Although Mike had changed the decor, Gillian still wanted to move house.

- A. When I listened to my album by Blur, Cheryl went out.
- B. The competition was won by Jack. Albert came last.
- C. The man was caught trying to rob eagle's nests last week.
- D. When I saw the bridge's span, I elected to go by boat.
- E. A maniac Ollie certainly was, but we all liked him.

64 Match the four words from List A with a word with the opposite meaning from List B.

List A List B

Light Large

Minute Terminate

Excellent Bad

Start Dark

Answers

1 ANN

give each letter a number according to its position in the alphabet.

TED = 20 + 5 + 4 (29)

ANN = 1 + 14 + 14 (29)

(George and Mary each add to 57)

2 A is true; B is false (the majority are concave); C is false (a spider has eight legs); D is false (a stalagmite grows upwards, whereas as stalactite grows downwards).

3 Nobody.

The Barber is a woman.

4	TANK CASTLE BANK RIVER BRIDGE CARDS WOOD BOW BULLS-EYE	VEHICLE TURRET SAND RIPARIAN SEVERN YARBOROUGH JACK YEW ARROW	TRACTOR TANK CASTLE BANK RIVER BRIDGE CARDS WOOD BOW BUILDS EVE
	TRACTOR	FARM	BULLS-EYE

SOLUTION 1 SOLUTION 2

5 OLIVE, SANDY, ISABEL (colours)

MARTIN, ROBIN, MAVIS (birds)

PRIMROSE, POPPY, MYRTLE (flowers)

GARNET, DIAMOND, PEARL (gems)

6 CLEFT

Turn the keys upside down and read the word formed by the lock ends.

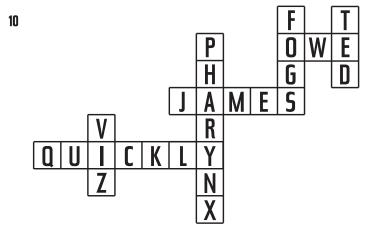
7 If at first you don't succeed, try, try, again, then quit. There's no sense being a damn fool about it.

Word Answers

8 Tomorrow

The day before yesterday was two days ago; the day after the day before yesterday was yesterday; two days after that (yesterday) is tomorrow.

9 Suspension bridge



11

E – tetragon (4 sides)

C – pentagon (5 sides)

B – hexagon (6 sides)

G – heptagon (7 sides)

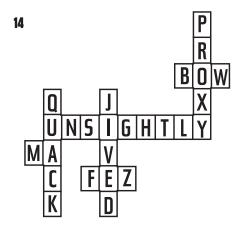
A – octagon (8 sides)

F – nonagon (9 sides)

D – decagon (10 sides)

12 CONSTANTINE

13 SCATTERBRAIN



15 SPINNAKER

16 ABANDON

The two cards at the top represent the letters of the alphabet, as there are 13 in each suit. Thus hearts represent A to M, and diamonds N to Z. Therefore:

Ace of hearts	Α
2 of hearts	В
Ace of hearts	Α
Ace of diamonds	Ν
4 of hearts	D
2 of diamonds	0
Ace of diamonds	Ν

17 C

In A two letters are missed out.

In B three letters are missed out.

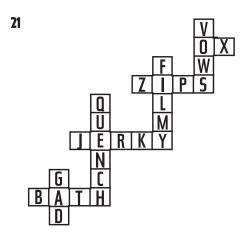
In C four letters are missed out with the exception of V, which should be U.

The numbers in D, E and F follow the same pattern.

18	+	$\begin{array}{c} 2730 \\ 29704 \\ 249918 \\ 278304 \\ 2104 \\ \underline{279918} \\ 842678 \end{array}$
19	+	130760 130760 130760 130760 130760 194215 848015

20 Wind-surfers

(spindrift = spray)



22 X is 4; Y is 6

Expressing each letter as a number according to its position in the alphabet, the table appears as below, with what were originally letters circled:

19	20	+1	
8	(0)		- 2
23	25	+2	
16	20		-4
0	4	+3	
5	(-6
3	7	+4	
x	12	(x is 4)	-8
\odot	у	+5	(y is 6)
4	14)		-10

23 Nylon hose

24 A 8; B 5; C 7; D 1; E 9; F 3; G 6; H 2; I 4

25 F

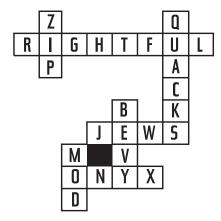
The letters are the initials of the numbers in the opposite segments. X is opposite to 4.

26 Colony of Frogs Horde of Gnats

Den of Snakes Clutter of Spiders Nest of Machine Guns Park of Artillery Doylt of Swine Gang of Elks Business of Ferrets Volery of Birds Hover of Crows Drift of Wild Pigs

27 Washing line (duds – slang word for clothes)

28



29	STALK	of	HUNTERS
	BUILDING	of	SWANS
	CLOUD	of	MAGPIES
	SKULK	of	FORESTERS
	COVERT	of	LAPWING
	HERD	of	BADGERS
	CONVOCATION	of	FRIARS
	SORD	of	COOTS
	BLAST	of	ROOKS
	DESERT	of	MALLARD
	TIDING	of	EAGLES
	COLONY	of	SEAFOWL
	NIDE	of	PHEASANTS

Word Answers

30 One after another.

31 Assume Horus is the greatest

"I am not" said Horus (LIE)

"Anubis is" said Isis (LIE)

"Isis is lying" said Anubis (TRUTH)

32 7

Male forenames are:

Leonard

William

David

Jim

Eric

Tom

(Alternate letters in the outer ring)

Female forenames are:

Iris

Mavis

Sarah

Vera

Ann

Amy

(Alternate letters in the inner ring)

33 Put the letter T in each blank space. Now start at the bottom left hand square and read up the first column, then along the top and eventually spiralling into the centre to spell out the word prestidigitation. A very magic word presented very squarely indeed!

34 FIR

The first letter is indicated by the position of the hour hand relative to the hours – in this case 6, that is sixth letter (F).

The next letter is shown by the position of the second hand. Here it is on the 9th second, and the ninth letter is I.

The third letter is indicated by the position of the minute hand. As it points to the 18th minute, it shows that the third letter is R – the 18th letter of the alphabet.

35 A Orange

B Red

CIndigo

D Cerise

E Magenta

36 Cousin Margaret. The statements of Aunty Mary, Uncle Jim and cousin Margaret are true.

37 A False

B True

C False

The near-side wheels rotate anti-clockwise, but the off-side wheels rotate clockwise! In C the acute angle is slightly more than 60 degrees, because by the time the minute hand reaches 10, the hour hand will have moved slightly past the figure 4.

38 CHILDREN

Present time indicated - CH, A. Forward to 5.15 - IL, B. Back to 12.50 - DR, C. Back to 11.20 - EN.

39 JONQUIL

The moves result as follows:

	Ba ll A	Ba ll B	Ba ll C
1st move	G	8	J
2nd move	Н	9	0
3rd move	Α	4	N
4th move	Е	6	Q
5th move	U	7	U
6th move	K	6	I
7th move	I	8	L

40 He was born in August in a town called March, became a priest and married his widowed mother to her second husband in February

41 MOSCOW

This problem is based on the fact that 26 cards make half of a full deck of playing cards, and there are also 26 letters of the alphabet. These 26 letters are represented by the cards at the top:

Clubs	Ace to 6	A to F
Spades	Ace to 6	G to L
Hearts	Ace to 6	M to R
Diamonds	Ace to 6	S to Z

Thus the cards at the bottom are:

Ace of hearts 13th letter M

Word Answers

3 of hearts	15th letter	0
Ace of diamonds	19th letter	S
3 of clubs	3rd letter	C
3 of hearts	15th letter	0
5 of diamonds	23rd letter	W

- B Cassia is a tropical tree; Cassius and Casca were conspirators against Julius Caesar.
- There are many different possible answers. We suggest you check your answers in your dictionary.

44 DOGS	ANIMALS	REPTILES
LURCHER	BONGO	CAIMAN
CLUMBER	TUMBLER	Saurian
POINTER	AGUTI	TAPIAN
TERRIER	ROEBUCK	PUDDOCK

They knew that Alan was a twin but that he had been separated from his twin brother at birth. Brian was the missing identical twin who they immediately recognised in the crowd.

46 VEGETABLES	INSECTS	REPTILES
PIMENTO	MINIPED	BASILISK
COLEWORT	MAYBUG	ANACONDA
SKIRRET	COCKCHAFER	MONITOR
BROCCOLI	BLACKFLY	CROCODILE

A.

There are three separate series. Starting with the first letter and taking every third letter thereafter – ITALY: Starting with the second letter and taking every third letter thereafter – SPAIN: from the third letter – INDIA.

V

Start at A and work clockwise to alternate segments in the sequence ABcDefGhijKImnoPqrstuV

49	ANIMALS	FISH	BIRDS
	DASYPUS	LAMPREY	BITTERN
	BANTING	MERLING	DOTTEREL
	HAMSTER	SQU I D	CHAFFINCH
	BUBALIS	GROUPER	DOVE

A. FALSE, B. TRUE, C. TRUE, D. FALSE

Canberra is the capital of Australia; Gauguin was a French post-impressionist painter.

51 A is false (the angle is 165 degrees of 195 degrees)

B is true

C is true

D is true (AEFHIKLMNTVWXYZ)

52 Sigh

Add the number of spots on each die to the letter shown. For example, Q plus 2 is S.

53 FIVE

Add the number of straight strokes that make up the words:

FIVE (10) plus TWENTY (18) = 28

TWENTY-FIVE = 28

TWELVE = 18

TWENTY = 18

The only word at the bottom that contains 10 strokes (the difference between 28 and 18) is FIVE.

54 T

In the bottom row numbers are substituted for letters (or letters for numbers) compared with the top row. T (the 20th letter) corresponds with 20 in the top row. (The middle row has no bearing on this comparison and is merely a 'red herring'.)

55 They all fall in the middle

15 February was the middle of February (1984 being a leap year); 2 July was the middle day of the year 1983; and 16 December was the middle of December.

56 12

The mistakes are: there; description; mowers; sons-in-law; councillor; objets d'art; electrical; there; seething; vehicles; commemorating; the (repeated).

- 57 His wife had just given birth to a baby.
- **58** She used a knife coated just on one edge with cyanide. When she sliced the apple in two, the victim's half only was poisoned.
- **59** Spade-foot toad Snake-eyed skink Rat-tailed snake Long-nosed viper

Word Answers

60 The disposition of the letters from A to H indicates that the words are considered in a dockwise direction. Starting with PAPER, and reading clockwise:

paper

(A) MONEY

spider

(B) CRAB

apple

(C) JACK

pot

(D) SHOT

gun

(E) DOG

collar

(F) BONE

dry

(G) CLEAN

cut

(H) GLASS

paper

61 A. False B. False, C. True

In A, note that the hour hand will not be exactly on the hour.

62 Lemonade

None of the rest are drinks.

63 The following words can be found:

A. Lurcher

B. Jackal

C. Beagle

D. Spaniel

E. Collie

64 List A List B
Light Dark
Minute Large
Excellent Bad

Start Terminate

Number Puzzles

1 A What starts the top series?
B What ends the bottom series?

-8163264128 19387615230-

2 What is the last line?

975949 634536 182018

3 What are A, B, C and D?

8	7
6	9

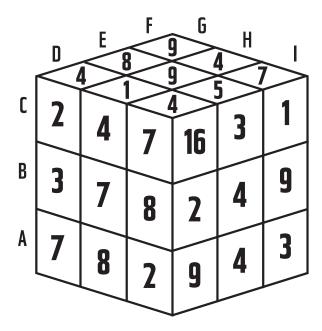
17 1314 16

33	27
31	29

6 9 2 3

A B
C D

- What comes next?
 - 61314-
- Each letter points to a row of SIX numbers. Which is the odd one out?



- How can you make this addition correct?

7 Counting down, first by one place, then by two places, then by three and so on (adding one extra place each time), as in this example – 15, 14, 12, 9, 5, 0 – which of these numbers will finish at zero?

102 103 104 105 106

8 In a party of 35 people there are twice as many women as children and twice as many children as men. How many of each are there?

9 There was a 16 horse race in progress at the race-course, but I missed the finish. I asked 6 of my friends to tell me the number of the winner. These were their answers.

A It was even

B It was odd

C It was prime

D It was a square number

E It had 2 digits

F It was between 6 and 12

But only four had told the truth.

Which number was the winner?

Number

10 A blind man had only black or white socks. In his drawer he had 4 socks. He went to the drawer and took out 2 socks.

The chances that he had a pair of white socks was $\ensuremath{\mathcal{Y}}$.

What were the chances that he had drawn out a pair of black socks?

11 Which two of these can be reversed so that the total of each row – across and down – equals 10?

A 541

B 613

C 352

12 What goes into the empty brackets?

1 2 (2 8 4 6) 3 4

4 5 (1 2 2 1 1 5 1 8) 6 7

7 8 (2 8 4 0 3 2 3 6) 9 10

11 12 () 13 14

13 There were 19 flautists in the Orchestra. One day a consignment of flutes arrived. The lead flautist took $\frac{1}{10}$ of the consignment + $\frac{1}{10}$ of a flute The 2nd flautist took $\frac{1}{10}$ of the remainder and $\frac{1}{10}$ of a flute and so on until there were only 2 flautists left.

The penultimate flautist took $\frac{1}{2}$ of the remainder and $\frac{1}{2}$ of a flute.

The last flautist felt a little aggrieved.

- a Why did he feel aggrieved?
- b How many flutes were in the consigment?
- **14** What is the sum of the numbers in the following list which are consecutive (for example 3, 4, 5)?

15 From the example given below, decide what goes into the empty brackets.

Number

$$12 \times 3 = 35$$

$$15 \times 3 = 46$$

and
$$16 \times 3 = 47$$

what does
$$17 \times 3 = ?$$

17 Which arithmetical signs should go into the brackets to complete the equations?

A.
$$(5 () 5)() 5 = 2$$

B.
$$4() 4() 4 = 4$$

C.
$$3()3()3=6$$

18 Two farm labourers were arguing about a water butt. One said it was less than half full and the other said it was more than half full.

To settle the argument they asked the farmer to adjudicate.

Although there were no other implements or vessels at hand with which to measure the water, the farmer was quickly able to determine who was correct.

How did he do it?

19 What number goes into the empty brackets?

20 If I had one more sister I would have twice as many sisters as brothers. If I had one more brother I would have the same number of each. How many brothers and sisters have I?

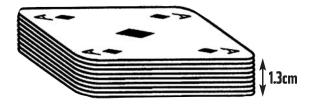
21 Select the number that is midway between the lowest number and the highest number. Which number is midway between that number and the number that is nearest the highest number?

- **22** A bag contains 64 balls of eight different colours. There are eight of each colour (including red). What is the least number you would have to pick, without looking, to be sure of selecting 3 red balls?
- 23 What goes into the empty brackets?

24 Two men A and B played a round of golf. A said to B, "Let us play for a wager on each hole, we will play for half of the money in my wallet at each hole. I have £100 in my wallet, so for the first hole we will play for a stake of £50. If I win you will give me £50, and if I lose you will be given £50. On the second hole I will either have £150 in my wallet or £50, so we will play for £75 or £25."

After the 12th hole it started to rain, so they stopped the game and went back to the dub house. As A had won 6 holes and B only 4 holes with 2 holes being tied, A said "I will buy the drinks". To his amazement, he had only £71.18 in his wallet. Why was this possible? It makes no difference in the order of winning the holes.

25 If a pack of playing cards measures 1.3cm when viewed sideways, what would be the measurement if all the aces were removed?



At college, 70% of the students studied Maths, 75% studied English, 85% studied French and 80% studied German.

What percentage at least must have studied all 4?

From the numbers below and using each number only once in each set, select at least five sets of three that add to 29:

What is X?

14	19	
8	22	

1	50
22	41

22	4
30	8

10	34
28	X

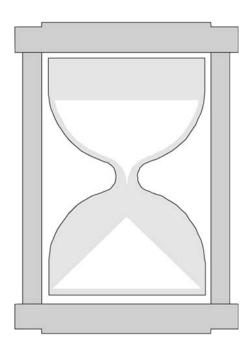
What goes into the empty brackets?

Number

30 The opposite faces of a die add to seven. The dice below rotate in the directions indicated, one face at a time. After three moves, what will be the total of the front faces?



31 With a 7 minute hourglass and an 11 minute hourglass, what is the quickest way to time the boiling of an egg for 15 mins?



32 Which of the pairs of numbers at the bottom should be placed at X and Y so that each row of four numbers – across, down and diagonally – totals 20?

3	7	6	4
6	X		7
4	Υ		3
7	3	4	6





33 All of these except one have one thing in common. Which is the odd one out?

- A. 764345896
- B. 125612456
- C. 367874341
- D. 456578325
- E. 178652457
- F. 279651238

Number

34 A croupier in a Casino offered a gambler \$100 if he could throw a 6 with one throw of a standard die.

If he failed then he was allowed another throw, if he failed again he was allowed a 3rd throw.

How much should the gambler pay to the croupier for the chance to win \$100, stake not returned? Only one \$100 to be won.

HINT: One throw chances %

Two throws chances %

Three throws chances ¾ which is even money

So the stake should be \$50...or should it?



35 What numbers are represented by A, B and C?

					-
A	В	A	В	A	23
В	C	A	A	A	20
В	A	В	C	A	24
В	A	С	С	A	21
В	В	A	A	В	27
31	24	20	21	19	•

36 Consider the following and decide which is the odd one out.

A.
$$6 + 17 - 9 \div 7 + 3$$

B.
$$3 \times 11 + 6 \div 13 + 2$$

C.
$$2 \times 6 \times 3 + 4 \div 10$$

$$D.1 + 8 - 3 \div 2 + 2$$

$$E.7 - 4 + 6 - 1 - 3$$

37 What is the total of the four blank squares in the centre when appropriate numbers are filled in?

1	2	g	1	2	3
8	3	3	4	7	5
4	5			5	6
5	9			4	11
7	8	3	13	8	9
2	15	9	10	1	17

38 What should go into the last line in the left-hand column?

1812 9234

2421 6437

1556 3578

1436 2794

--- 2545

39 Puss had been called in to Monravia to get rid of the rats. Puss had been told that he could bring as many of his friends as he wished to help him.

After a year every cat had killed an equal number of rats: the total was 1,111,111 rats.

How many cats were there?

- **40** What is X?
 - 24 81 63 26 412 8 25 X
- **41** If 1 = X, 2 = C and 3 = M, what is $\frac{3}{2} + \frac{2}{1}$?

42 What goes into the empty brackets?

43 What comes next?

14 21 13 2 18 1 20 -

44 3 men are playing dice, each using different numbers, each dice has three numbers repeated. The men can choose their numbers. If

A beat B and

B beat C and

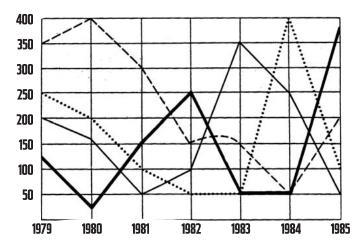
C beat A

What numbers should each dice have?

This is a unique answer.



45 These graphs show the annual profits of four different companies. Which company showed the greatest overall profit in the five years from 1981 to 1985 inclusive?



company A ---- company B company C company C company D

46 A census taker called at a man's house and said, "What are the ages of your 3 daughters?"

The man said "If you multiply their ages together it equals 72 and if you add them it equals your door number". The census taker said "Well if you cannot give me further information I still don't know".

The man said "Well my eldest daughter has a dog with a wooden leg".

The census taker said, "I know now".

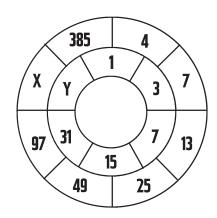
What were their ages?

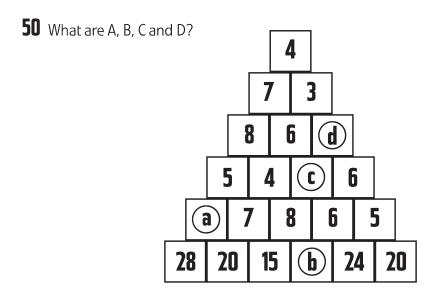
47 At the casino I had to pay a £1 entrance fee. I also gave the cloakroom girl £1 tip each evening. Each day for four days I lost half of the money I had left. I went home with £1. How much did I have to start with?

48 What comes next in this series?

1 2 6 24 120 720 -

49 What are X and Y?





51 Give values for A, B and C.

3	9	A
В	2	2
C	5	6
7	8	2
3	5	10
9	1	9

- **52** A billiard table is in the form of a rectangle with integral sides and just four pockets, one in each corner. A ball shoots out of one of the pockets at angles of 45° to the sides. Will it bounce around the table or finish up in one of the pockets?
- **53** 100 aliens attended the intergalactic meeting on Earth:
- 78 had two heads
- 28 had three eyes
- 21 had four arms
- 12 had two heads and three eyes
- 9 had three eyes and four arms
- 8 had two heads and four arms
- 3 had all three unusual features

How many had none of these unusual features?

Add the sum of the odd numbers in square A to that of the even numbers in square B and subtract the sum of the prime numbers in square C.

A				
3	5	15		
18	26	2		
4	7	9		

8	10	7
3	1	2
14	13	6
	В	

6	15	17
3	9	4
21	11	19
	С	

What are X and Y?

Whilst driving his two young sons to the seaside, dad hit on an idea to keep the boys occupied. He invited each of them to choose a number between 0 and 9 and to watch for them on the oncoming cars, promising a prize to the first one to reach twenty. Jimmy chose 0 and Freddie chose 1. Why was Freddie more likely to win than Jimmy?

57 An English football club had 17 players in their squad. There were 9 English players and 8 foreign players.

How many different teams can they select if each team had 5 English players and 6 foreign players?

58 Add the two highest numbers from the following list and take away the sum of the three lowest numbers.

16 13 9 11 23 19 5 14 12 15 18 17

59 If 6 3 5 4 2 equals 5 2 6 3 4, what is B C D E F?

60 Which date does not conform with the others?

A. 1584 B. 1692 C. 1729 D. 1809 E. 1980

61 What goes into the empty brackets?

144(3625)125 96(1618)126 112()144 **62** Which of these is the odd man out?

4 18 16 8 24

- Three husbands and wives visit a casino. The men are John, Ernie and Oswald. The women are Alice, Betty and Marjorie. Each of the six gamble independently but agree to stop whenever each couple's gain or loss reaches £200. All three husbands lose all the time but each couple wins the agreed £200. Each of the six had participated in as many single games as on average he or she had won or lost pounds per game. Ernie lost £504 more than John. Betty won £2,376 more than Marjorie. Who is married to whom?
- **64** A has thought of a number between 13 and 1300. B is trying to guess it.
 - B asks whether the number is below 500A says "yes"
 - 2 B asks if the number is a perfect square A says "yes"
 - 3 B asks if the number is a perfect cube A says "yes"

A says "only two of my answers are correct"

A says "the number starts with 5, 7 or 9"

B now knows the number.

What is it?