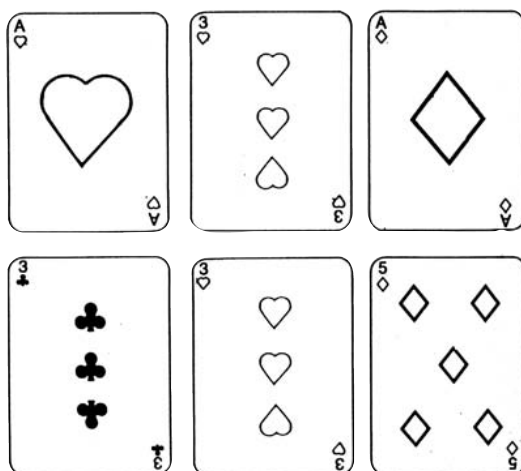
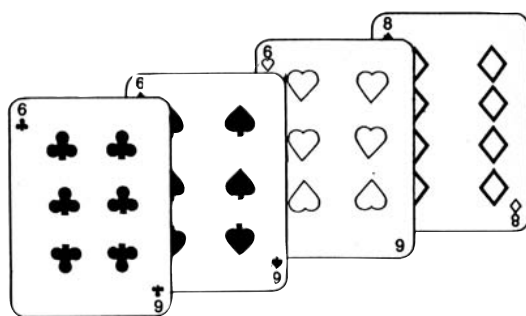


40 "Life's funny", said an old friend when I bumped into him the other day. "Listen to this, I was born in March, yet I celebrate my birthday in August, and last February I married my mother".

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

43 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
 CHARIOT
 CHOCOLATE
 DELIBERATE
 DESTRUCTION
 ENCOURAGE
 EVACUATE
 EXHILARATION

FACETIOUSNESS
 FATIGUE
 HURRIES
 ILLUMINATED
 INSTRUCTOR
 LATEST
 MASCULINE
 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

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

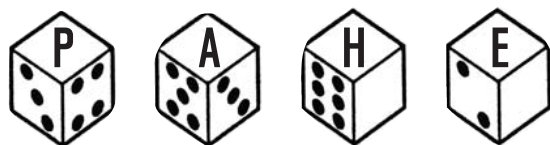
50 Decide which of these statements are true and which are false.

- 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?

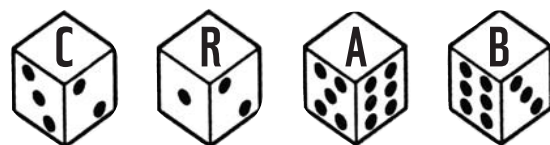
- A. At 12.30 the hands of a clock form an angle of 180 degrees.**
- B. $15/16$ th is the same as 0.9375.**
- C. The Andes are south of the Rockies.**
- D. 15 capital letters of the alphabet consist entirely of straight strokes.**

52 If



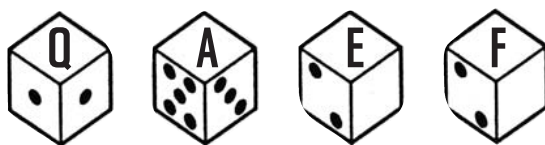
is WING

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 1984

2 July 1983

16 December 1983

56 How many mistakes can you find here?

In the town there were shops of every description, but the biggest shop was stocked with such things as lawn mowers and garden tools. Two shops were managed by Stan and Bert, the son-in-laws of a town councillor. Stan sold objects d'art, while Bert's shop was stocked with electrical goods. In the High Street there was a seething mass of people and vehicles. At the end of the street was a monument in commemoration of the local boys who were killed in the the last war.

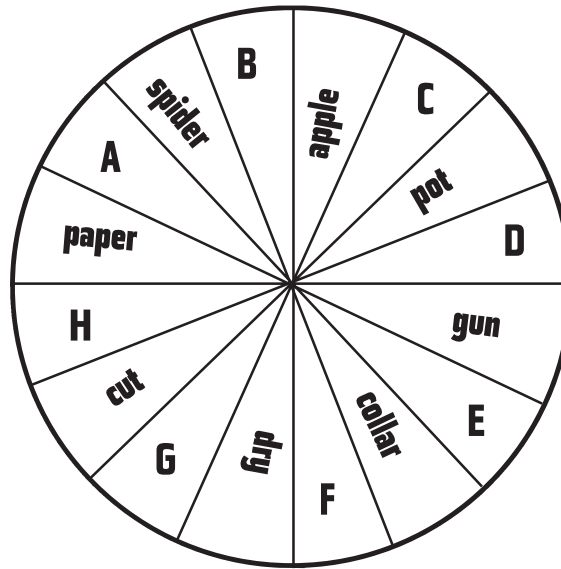
57 A man was working on a night shift when he suddenly received a telephone call giving him some information causing him to dash home at breakneck speed.

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?

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

63 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

Light

Minute

Excellent

Start

List B

Large

Terminate

Bad

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

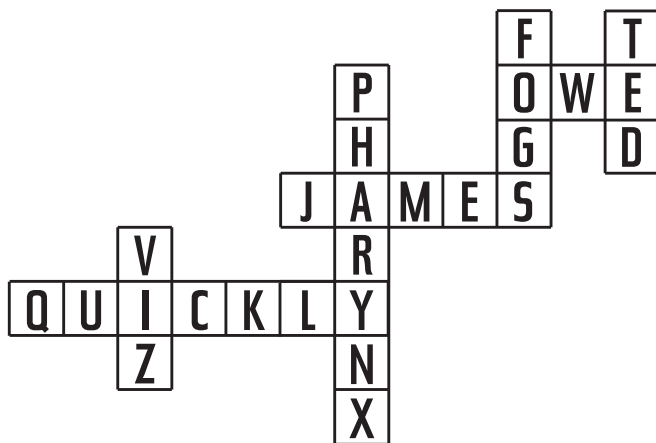
Word Answers

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

10



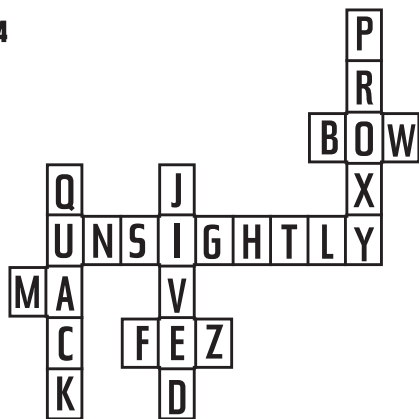
11

- 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

14



- Den of Snakes
- Clutter of Spiders
- Nest of Machine Guns
- Park of Artillery
- Doyle 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

C Indigo

Word Answers

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

42 B Cassia is a tropical tree; Cassius and Casca were conspirators against Julius Caesar.

43 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

45 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

47 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.

48 V

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

49	ANIMALS	FISH	BIRDS
	DASYPUS	LAMPREY	BITTERN
	BANTING	MERLING	DOTTEREL
	HAMSTER	SQUID	CHAFFINCH
	BUBALIS	GROUPER	DOVE

50 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 (AEFHILMNTVWXYZ)

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; vehides; 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 clockwise 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

Light

Minute

Excellent

Start

List B

Dark

Large

Bad

Terminate

Number Puzzles

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

- 8 1 6 3 2 6 4 1 2 8
1 9 3 8 7 6 1 5 2 3 0 -

- 2 What is the last line?

9 7 5 9 4 9
6 3 4 5 3 6
1 8 2 0 1 8

- 3 What are A, B, C and D?

1	2
5	7

8	7
6	9

17	13
14	16

33	27
31	29

6	9
2	3

A	B
C	D

4 What comes next?

61314 -

5 Each letter points to a row of SIX numbers. Which is the odd one out?

	D	E	F	G	H	I
	4	8	9	4	7	
C	2	4	7	16	3	1
B	3	7	8	2	4	9
A	7	8	2	9	4	3

6 How can you make this addition correct?

$$\begin{array}{r}
 11 \\
 66 \\
 88 \\
 96 \\
 \hline
 294 \\
 \hline
 \end{array}$$

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?

16 If $13 \times 3 = 40$

$$12 \times 3 = 35$$

$$15 \times 3 = 46$$

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

D. $2 () 2 () 2 = 8$

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?

16 (**4 2 5 6**)

9 (**3 8 1**)

25 ()

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?

35 5 52 36 67

69 4 51 37 71

55 68 3 53 39

26 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?

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

18 6 13 9 19 12
11 4 10 5 8 17

28 What is X?

14	19	1	50	22	4	10	34
8	22	22	41	30	8	28	X

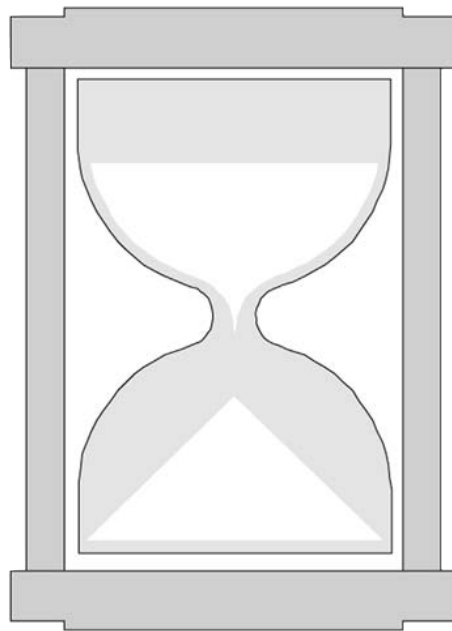
29 What goes into the empty brackets?

2 (38) 3
4 (1524) 5
6 (3548) 7
8 () 9

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	Y		3
7	3	4	6

4	6	7	6	3	6
---	---	---	---	---	---

A B C

6	3	3	4	6	4	4	3	6	7
---	---	---	---	---	---	---	---	---	---

D E F G H

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

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 $\frac{1}{6}$
 Two throws chances $\frac{2}{6}$
 Three throws chances $\frac{3}{6}$ which is even money

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



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

A	B	A	B	A	23
B	C	A	A	A	20
B	A	B	C	A	24
B	A	C	C	A	21
B	B	A	A	B	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	9	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?

3 4 5 6 (7 1)
 6 5 9 2 (1 1 7)
 7 2 5 1 (9 4)
 9 5 9 2 ()

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

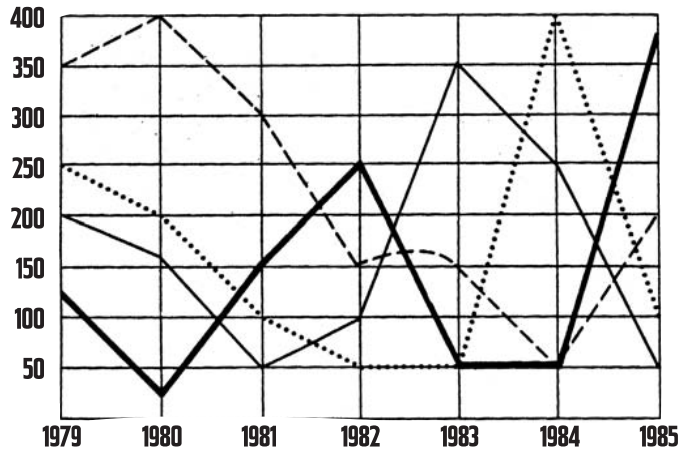
C beat A

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 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".

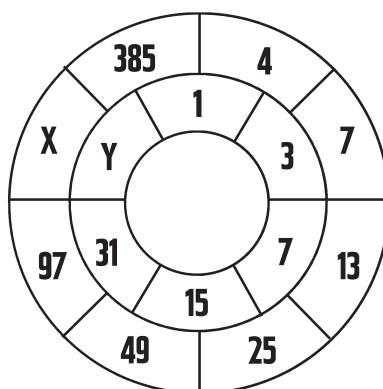
What were their ages?

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?

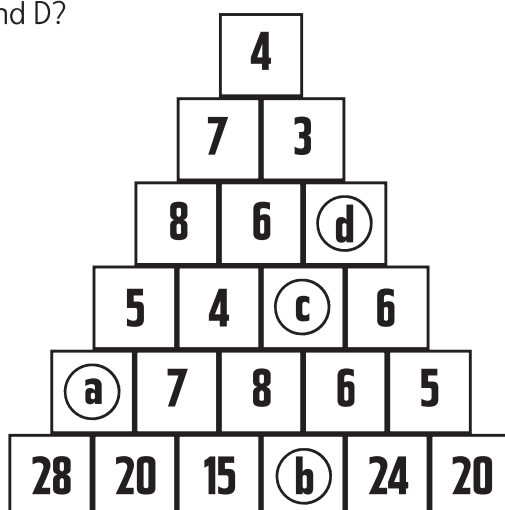
48 What comes next in this series?

12 6 24 120 720 -

49 What are X and Y?



50 What are A, B, C and D?



51 Give values for A, B and C.

3	9	A
B	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?

54 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.

4	7	9
18	26	2
3	5	15

A

8	10	7
3	1	2
14	13	6

B

6	15	17
3	9	4
21	11	19

C

55 What are X and Y?

$$\begin{array}{r}
 31X4 \\
 6Y95 \\
 \hline
 10019
 \end{array}$$

$$\begin{array}{r}
 491X \\
 3Y01 \\
 \hline
 1111
 \end{array}$$

56 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?

Number

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 63542 equals 52634 , what is $BCDEF$?

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

63 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.

1 B asks whether the number is below 500

A 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?