

1. 0, 1, 3, 6, 7, 9, 12, 13, 15, 18, ?, ?, ?

What numbers should replace the question marks?

2. Find two words that differ only by the omission of a single letter (for example, place/ pace), in answer to the following clue:

bowl-shaped cavity/ provide food

- 3.

43	6	16	12	24
2	22	1	4	9
46	30	48	5	13
38	8	36	7	3
11	20	14	10	15

What number in the grid is three places away from itself less two, two places away from itself divided by two, three places away from itself less five and three places away from itself multiplied by three?

- 4.

A	C	F
E	?	J
J	L	?

Which is the missing section?

H	
	I

A

G	
	O

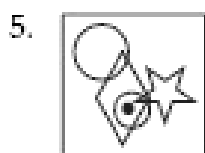
B

H	
	O

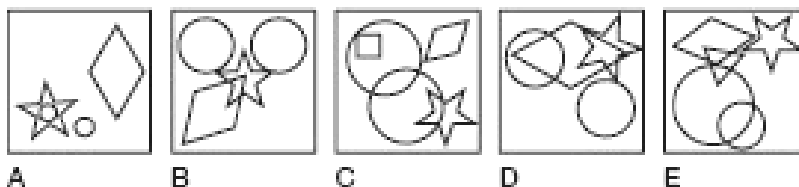
C

G	
	I

D



To which of the squares below can a dot be added so that the dot then meets the same conditions as the dot in the square above?



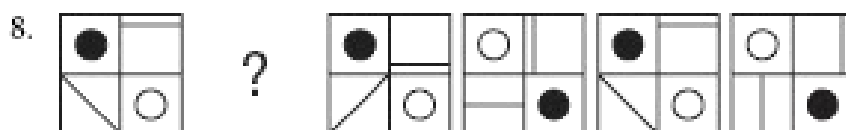
6. Complete the following to create a palindromic phrase, ie one that reads the same forwards and backwards, such as Madam I'm Adam.

*U**L* ***P**

Clue: scholarly errors!

7. $\begin{array}{ccccc} 83 & 64 & 45 & ?? \\ 96 & 65 & 34 & ?? \end{array}$

What numbers should replace the question marks?



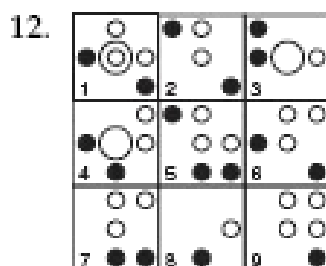
Draw the missing figure in the above sequence.

9. Which is the odd one out?
sow, bull, buck, boar, stallion
10. The ages of five family members total 107 between them.
The ages of Margaret and Stuart total 29 between them.
The ages of Stuart and Jeffrey total 44 between them.
The ages of Jeffrey and Brian total 57 between them.
The ages of Brian and Philip total 46 between them.
How old is each family member?
11. IVY CITRATE is an anagram of which two 10-letter words in the English language?

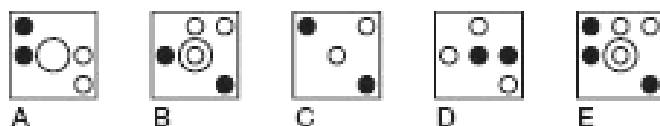
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Looking at lines across and down, if the first two tiles are combined to produce the third tile, with the exception that like symbols are cancelled out, which of the above tiles is incorrect, and with which of the tiles below should it be replaced?



13. Which two words are most opposite in meaning?
 watertight, humid, tractable, opulent, portentous, tenuous

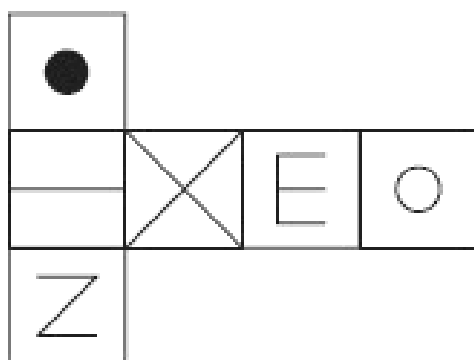
14.

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

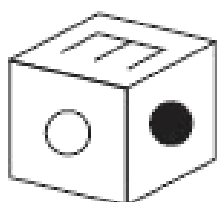
What number should replace the question mark?

15. Add three consecutive letters of the alphabet to the group of letters below, without splitting the consecutive letters of the alphabet, to form another word.
 GERE

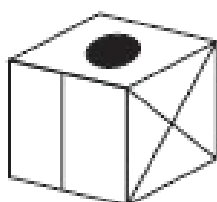
16.



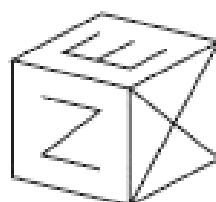
When the above is folded to form a cube, which is the only one of the following that *can* be produced?



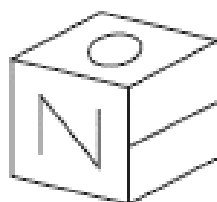
A



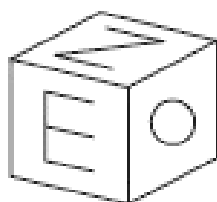
B



C



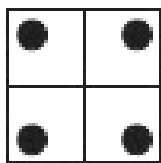
D



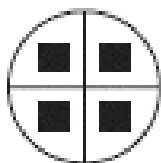
E

17. closed is to shut as open is to: obscure, visible, field, overt, wide
18. Harry is one and a third as old as Larry and Larry is one and a third as old as Carrie. Together their ages total 74. How old are Larry, Harry and Carrie?
19. Which two words are closest in meaning?
 salubrious, healthy, identical, conspicuous, devout, bleak

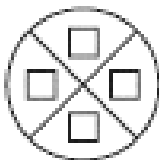
20.



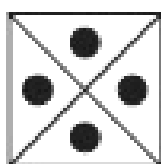
is to:



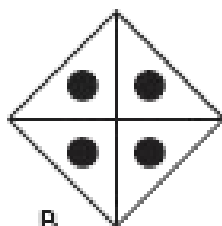
as:



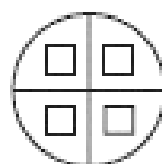
is to:



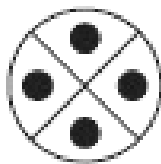
A



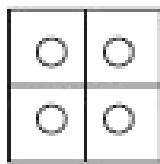
B



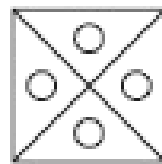
C



D

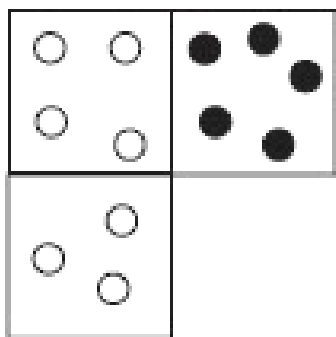


E

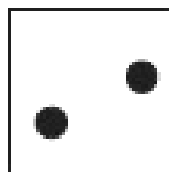


F

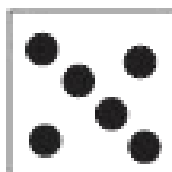
21.



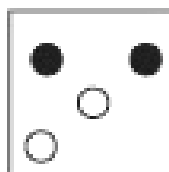
Which is the missing tile?



A



B



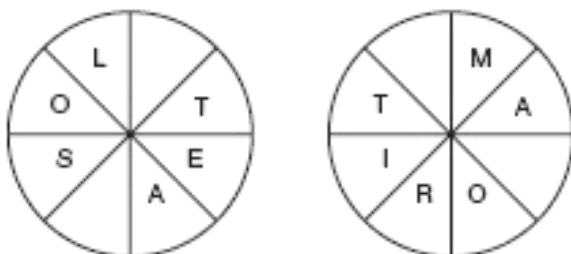
C

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22. Find two words, both reading clockwise round each circle. You must find the starting point of each word and provide the missing letters. The two words form a phrase.



23. Switch A turns lights 1 and 2 on/ off or off/ on
 Switch B turns lights 2 and 4 on/ off or off/ on
 Switch C turns lights 1 and 3 on/ off or off/ on
 Switch D turns lights 3 and 4 on/ off or off/ on

● = ON

○ = OFF

Switches A, C, D and B are thrown in turn with the result that Figure 1 turns into Figure 2. Which switch does not work at all?

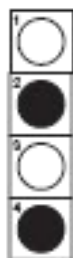


Figure 1

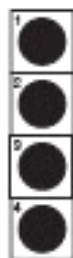
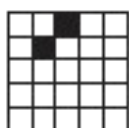


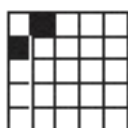
Figure 2

24. 

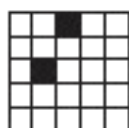
Which is missing?



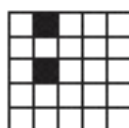
A



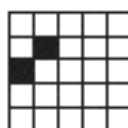
B



C



D



E

25. The letters below represent a phrase where the initial letters of each word and the spaces have been removed. What is the phrase?

INEFORK

26.

23	24	41
57	92	91
18	16	28
56	21	19

Multiply the highest odd number in the grid by the lowest even number.

27. Only one group of five letters below can be rearranged to spell out a five-letter word in the English language. Identify the word.

LEVUR

TNIEC

HEOLC

ANOIP

IRNAL

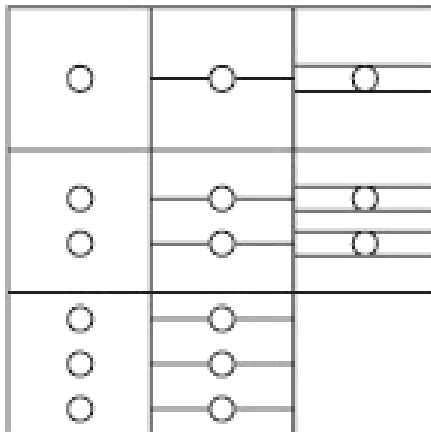
28. 1, 2.25, 3.75, 5.5, 7.5, 9.75, ?

What number should replace the question mark?

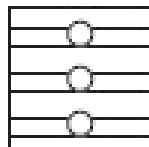
29. Place a word in the bracket that forms a new word or phrase when tacked onto the word on the left, and another word or phrase when placed in front of the word on the right.

second () some

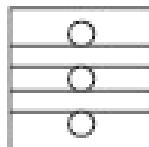
30.



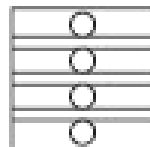
Which is the missing tile?



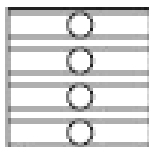
A



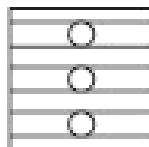
B



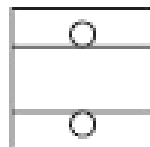
C



D



E



F

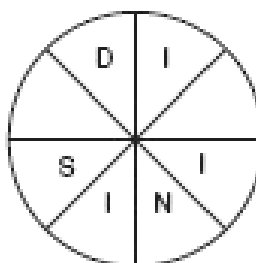
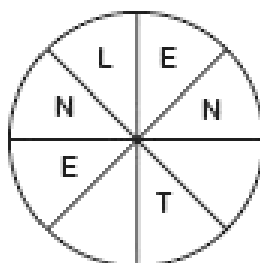
31. How many minutes is it before midnight if 32 minutes ago it was three times as many minutes past 22.00?

32. boater, nail, about, ruin, alibi, ?

Which word below comes next in the above sequence?

stray, tiara, treat, suit, trail

33.

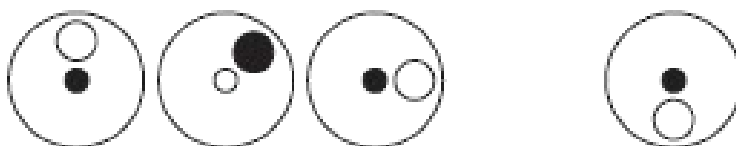


Work clockwise round the circles to spell out two eight-letter words that are antonyms. Each word commences in a different circle, and you must find the starting point of each. Every letter is used once each and all letters are consecutive.

34. 1, 31, 59, 85, 109, ?

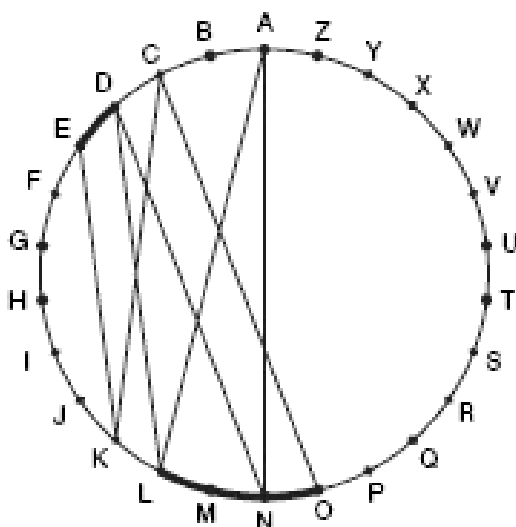
What number should replace the question mark?

35.



Draw the missing figure in the above sequence.

36.



Find two words (4, 6) in this diagram. Letters are traced across the circle by chords. If the next letter is four letters or less away, it will be found by tracing around the circumference. Clue: no coastline

37.

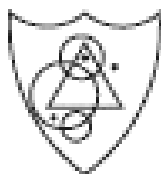
E	L	I
	F	E
	I	D

Start at one of the four corner letters and spiral clockwise round the perimeter, finishing at the centre letter to spell out a nine-letter word. You must provide the missing letters.

38. What is $\frac{5}{9}$ divided by $\frac{15}{18}$?

39. Three coins are tossed in the air and two of the coins land with heads face upwards. What are the chances on the next toss of the coins that at least two of the coins will land with heads face upwards again?

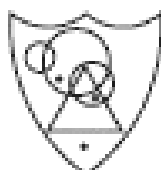
40.



Which shield below has most in common with the shield above?



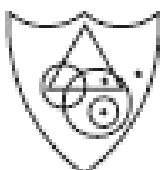
A



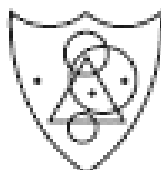
B



C

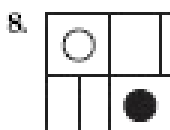


D



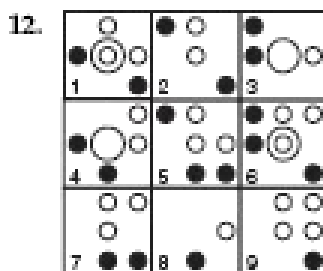
E

1. 19, 21, 24: the sequence progresses +1, +2, +3 repeated; 2. crater/ cater; 3. 8;
 4. B: looking across, the letters jump +2, +3 in the alphabet, for example – AbCdeF.
 Looking down, they progress +4, +5, for example – AbcdEfghij; 5. D: so the dot
 appears in the diamond and circle only; 6. PUPILS SLIP UP; 7. 2 6, 0 3. Looking
 across, the numbers in the same position in each pair progress: 8, 6, 4 2; 3, 4 5, 6;
 9, 6, 3, 0; 6, 5, 4, 3;



The top left-hand corner alternates black dot/white dot; the top right-hand corner
 alternates horizontal line/vertical line; the bottom left-hand corner line moves
 diagonal/vertical/diagonal/horizontal/diagonal, and the bottom right-hand
 corner alternates white dot/black dot;

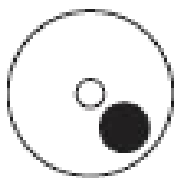
9. sow: it is a female animal, the rest are male; 10. Margaret 17, Stuart 12, Jeffrey 32,
 Brian 25 and Philip 21; 11. CREATIVITY, REACTIVITY;



Tile 6 is incorrect and should be replaced by tile E;

13. watertight, tenuous; 14. 6: the total of the numbers in each column alternates
 20, 30, 20, 30, 20, 30; 15. GESTURE; 16. A; 17. overt; 18. Harry 32, Larry 24,
 Carrie 18; 19. salubrious, healthy; 20. F: the circle becomes a square and the four
 white squares become white circles; 21. D: looking across, the number of dots
 increases by one and white becomes black. Looking down, the number of dots
 decreases by one and the dots stay the same colour; 22. ABSOLUTE MAJORITY;
 23. Switch C is faulty; 24. C: the black square originally in the top right-hand
 corner is moving right to left one space at a time at each stage. The other black
 square is moving from bottom to top; 25. LINE OF WORK; 26. 1456 (91 × 16);
 27. ANOIP = PIANO; 28. 12.25: add 1.25, 1.5, 1.75, 2, 2.25, 2.5; 29. hand: second
 hand, handsome; 30. E: looking across, the number of lines increases. Looking
 down, the number of circles increases by one and the circles fit within the bands
 formed by the lines; 31. 22 minutes. Midnight less 22 minutes = 11.38. Less 32
 minutes = 11.06. 10 pm (22.00) plus 66 minutes (22 × 3) = 11.06; 32. tiara. The conso-
 nants b t r n and l are being repeated in the same order; 33. LENGTHEN,
 DIMINISH; 34. 131: add 30, 28, 26, 24, 22;

35.



The large circle moves 45° clockwise and alternates white/black. The centre dot alternates black/ white;

36. LAND LOCKED; 37. DISBELIEF;

$$38. \frac{5}{9} \times \frac{18}{15} = \frac{2}{3}$$

39. 50 per cent: it is a certainty that at least two coins will land with the same side face up. It is equally likely that these two coins will land heads up as they will land tails upwards. It is immaterial what occurred in the previous toss; 40. B: it has three circles of differing sizes, one triangle, one dot out on its own, one dot in the large circle only and the other dot in the middle-sized circle and triangle.