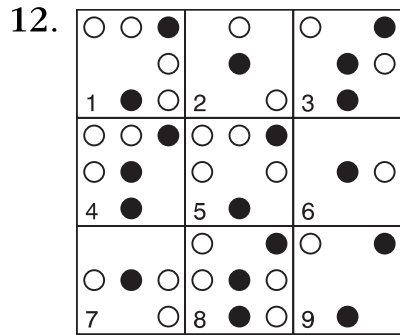


# Test Two: Answers

1. E: the number of white dots is increased by one each time, both vertically and horizontally, and all white dots are connected
2. PART: RAMPART and PARTRIDGE
3. B: lines across proceed +2, -3, +2. Lines down proceed -3, +2, -3.
4. glass
5. 5:  $(8 + 7) \times 5 = 75$
6. fact is stranger than fiction
7. B: black objects turn to white and vice versa
8. 7. 5: the sequence proceeds +4,  $\div 2$ , +4, etc
9. meridian, parallel
10. B: in lines and columns, add the first three numbers to arrive at the fourth number

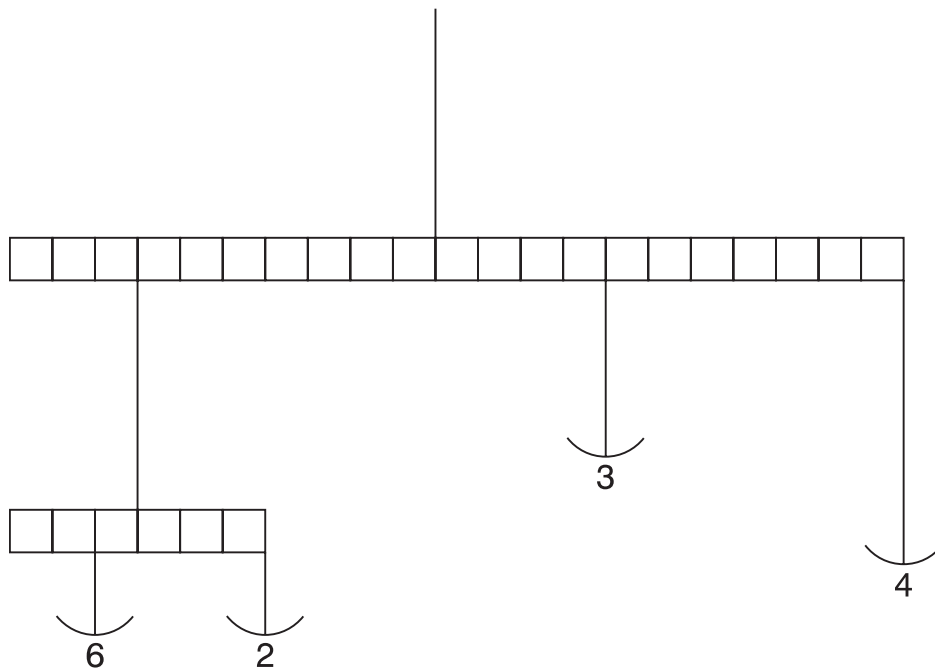
11. observe



Tile 7 is incorrect, and should be replaced by tile B.

13. frivolity, sobriety

14.



$$6 \times 1 = 2 \times 3: 7 \times 8 (6 + 2) = 56$$

$$11 \times 4 = 44$$

$$4 \times 3 = 12$$

$$44 + 12 = 56$$

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15. weigh hay

16. D

17. mandible: it is the jaw bone, the rest are bones in the leg

18. 10 p.m.

12 noon = 12 noon

1 p.m. = 12.43

2 p.m. = 1.26

3 p.m. = 2.09

4 p.m. = 2.52

+6 hours = 10 p.m.

19. OPTICAL ILLUSION

20. A: each line across and down contains five black dots and four white dots

21. A: the figure is tumbling  $45^\circ$  at each stage and alternates white/black/striped

22. crossfire: all words contain an embedded tree – do(pine)ss, uncl(oak)ing, dishw(ash)er, cross(fir)e

23 57: there are two alternate sequences: +14, -97

24. C

25. 27, 9, 12: the sequence progresses  $\div 3$ ,  $+3$ ,  $\times 3$ ,  $-3$  repeated

**Test Two: Answers**

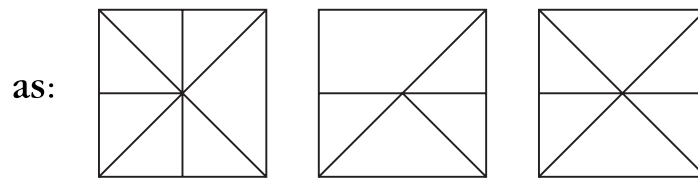
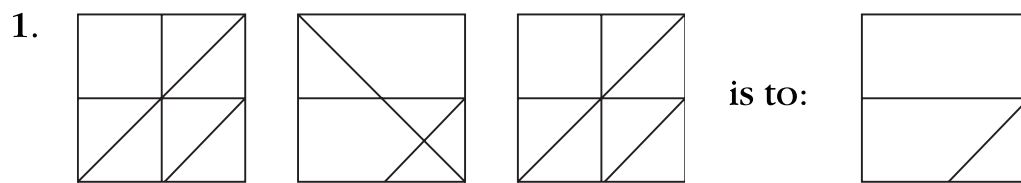
26. D: it contains a triangle in a circle, a circle in a triangle (with the same orientation of the triangle) and a black dot in a square
27. minimum
28. 7:  $91 \div 13$
29. Switch D is faulty.
30. coalesce
31. 17: it is the sum of the two digits ( $9 + 8$ ) in the quadrant directly opposite
32. E: so that the dot appears in two circles and the square
33. 32: the next cube number below  $64 (4 \times 4 \times 4)$  is  $27 (3 \times 3 \times 3)$ . In order to construct a solid cube, therefore, with none left over,  $59 - 27 = 32$  blocks need to be taken away.
34. DERIVE/DRIVE
35. 49:  $(73 + 25) \div 2$
36. COMPUTE
37. D: the last two rows of figures repeat the first two rows of figures in reverse
38. MEDIOCRE, SUPERIOR

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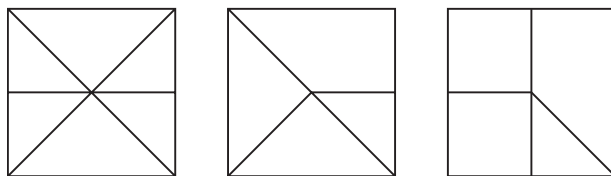
39. 8: each number in the segment at the bottom is the sum of the four numbers in the sections either side. Thus:  $8 + 3 + 4 + 3 = 18$

40. E

# Test Three: Questions



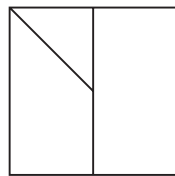
is to:



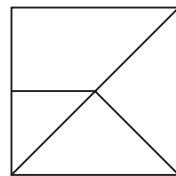
A

B

C



D



E

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2. Which is the odd one out?

cymbal, marimba, vibraphone, trombone, glockenspiel

3. stationary, less, stationery, principal, fewer, principle

Place the words above alongside their correct definition below:

head of school

fundamental truth

standing still

writing materials

smaller in amount

smaller in number

4. Which is the odd number out?

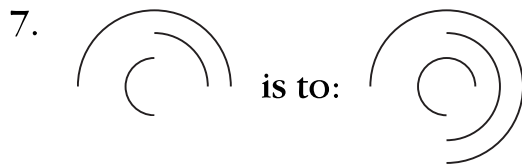
462 683 385 198 253 781 594

5. PURE AS TUFT is an anagram of which two words that are opposite in meaning?

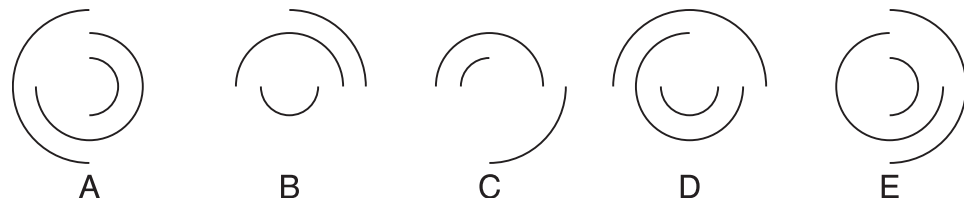
6.

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

Which letter is midway between the letter two letters below the letter immediately to the left of the letter G, and the letter three letters above the letter immediately to the right of the letter V?



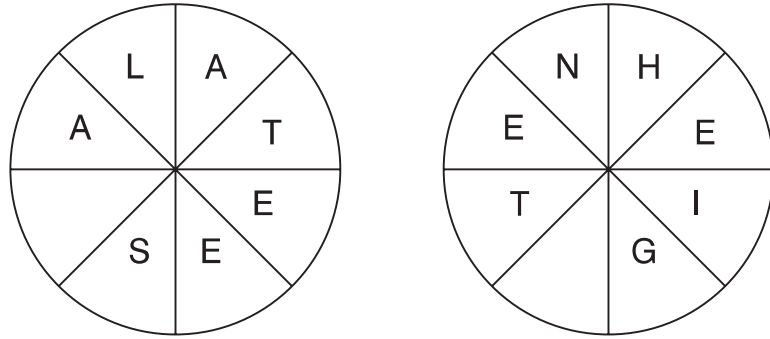
is to:





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8.



Complete two eight-letter words, one in each circle, and both reading clockwise. The words are synonyms. You must find the starting points and provide the missing letters.

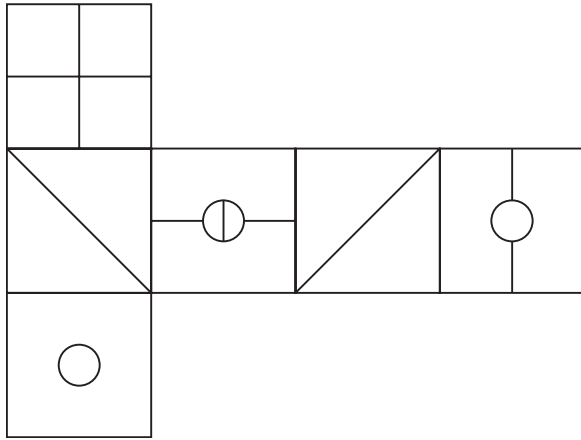
9. 1, 50, 6, 45, 11, 40, 16, 35, 21, ?, ?

Which numbers should replace the question marks?

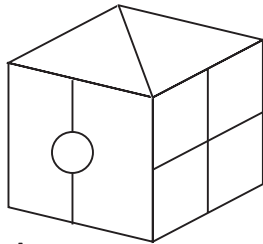
10. Arrange the words below into alphabetical order:

acescence, acetamide, acerbated, acetified, acellular, acescency, acetabula, acerbates

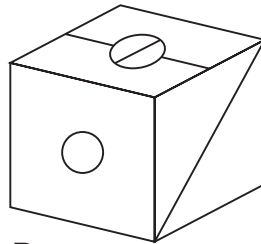
11.



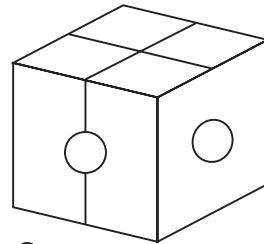
When the above is folded to form a cube, which is the only one of the following that *can* be produced?



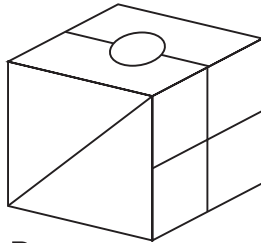
A



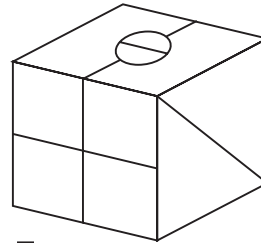
B



C



D



E

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12.

3	9	1	2	8	3
9	?	?	2	1	9
1	?	?	3	9	1
2	1	9	3	8	2
8	3	9	1	2	8
3	8	2	1	9	3

Which is the missing section?

8	3
8	2

A

3	8
2	8

B

8	2
8	3

C

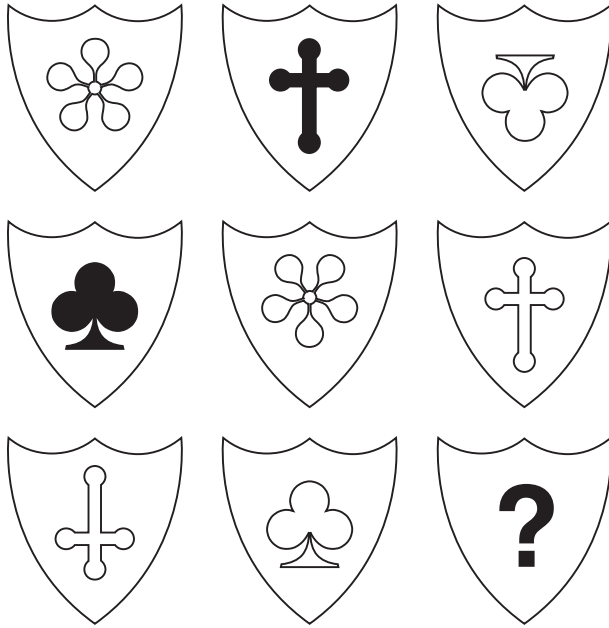
2	8
3	8

D

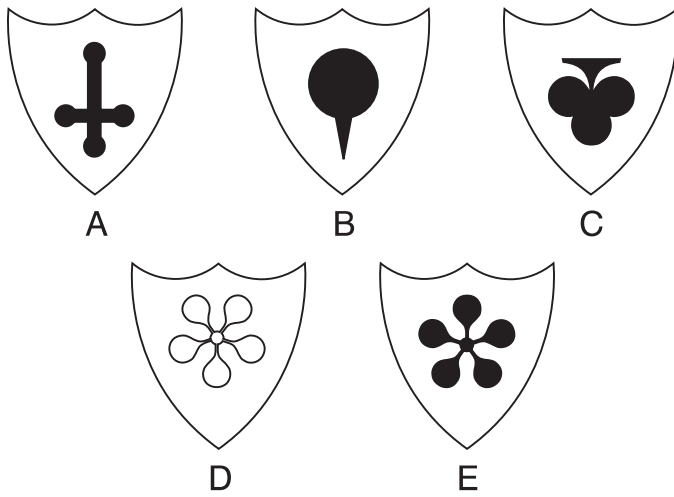
13. Solve the anagram in brackets to correctly complete the quotation with a 10-letter word.

‘The difference between golf and (torn veg men) is that in golf you cannot improve your lie’ *George Deukmejian*

14.

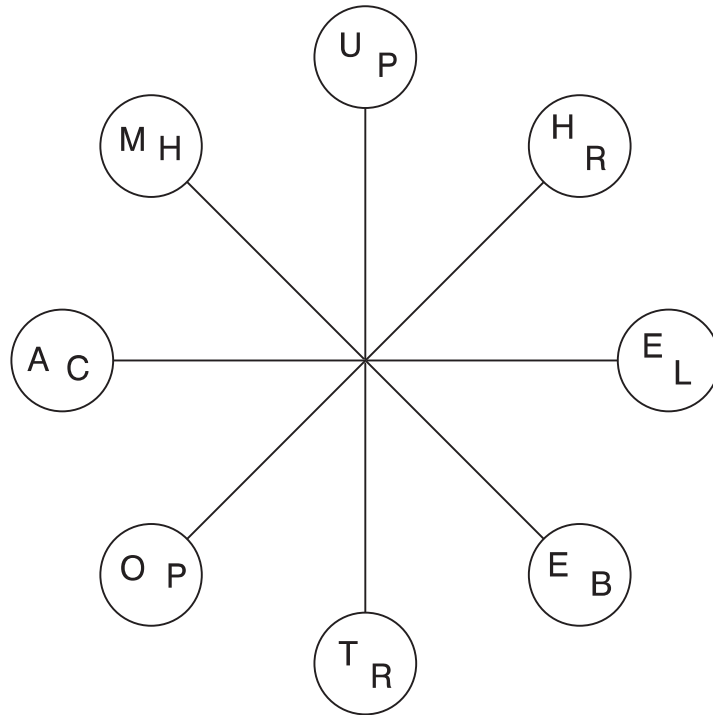


Which shield should replace the question mark?



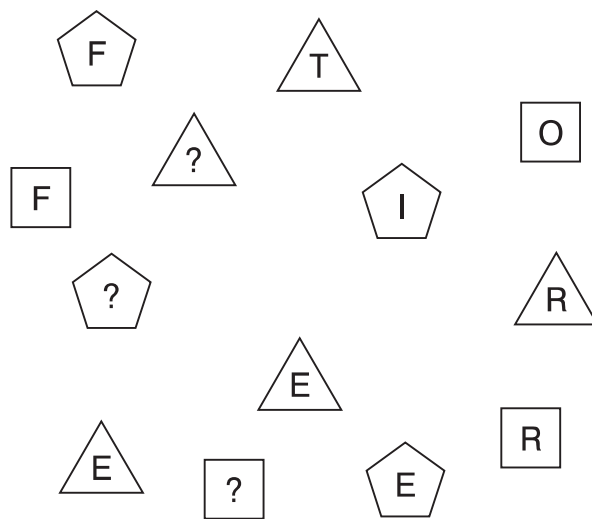
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15.

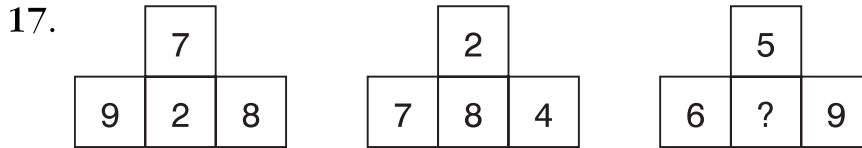


Take one letter from each circle in turn and using each letter once only find two eight-letter words that are similar in meaning. Both words read clockwise and each starts in a different circle.

16. What letters should replace the question marks?

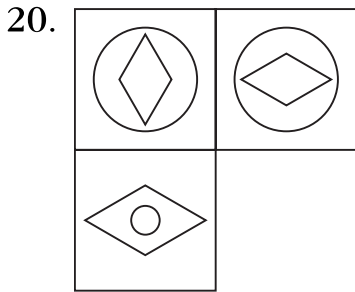


**Test Three: Questions**

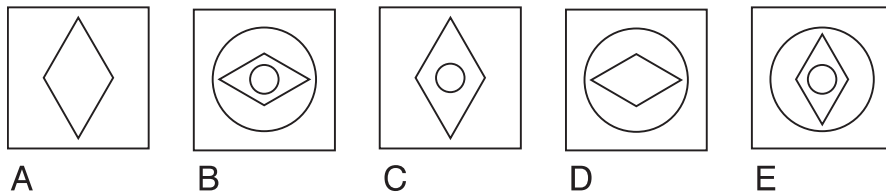


What number should replace the question mark?

18. bizarre is to outlandish as eccentric is to: eerie, quirky, esoteric, weird, curious
19. On taking delivery of a consignment of eggs the market stall owner was furious to find that several were cracked. In fact, on counting them up in order to assess the damage he found that 72 were cracked, which was 12 per cent of the total consignment. How many eggs in total were in the consignment?



Which is the missing tile?



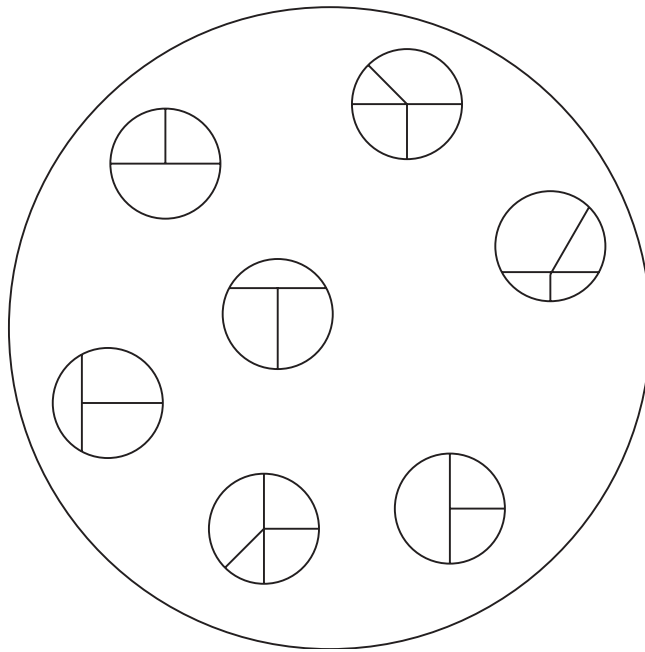
21. MTD is to PXB as FRJ is to?

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**22. A B C D E F G H**

What letter is two letters to the left of the letter immediately to the right of the letter three letters to the right of the letter A?

23.



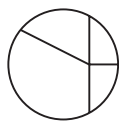
Which circle below should be placed in the large circle above?



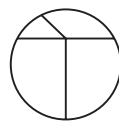
A



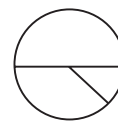
B



C



D



E

**Test Three: Questions**

24. Using the five letters below only, create a nine-letter word.

LOPER

25. 16, 23, 19, 19, 22, 15, 25, ?

What number should replace the question mark?

26. Simplify:

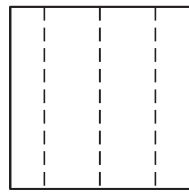
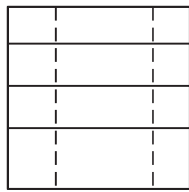
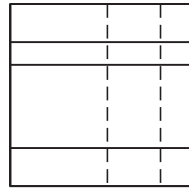
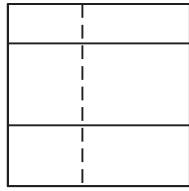
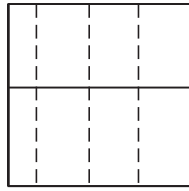
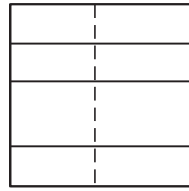
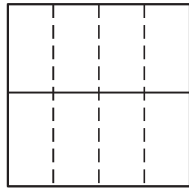
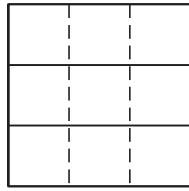
$$\frac{14}{55} \div \frac{56}{77}$$

as the lowest fraction.

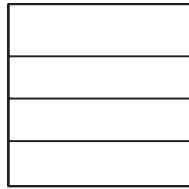


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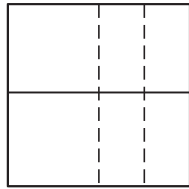
27.



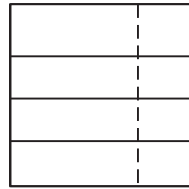
Which is the missing box?



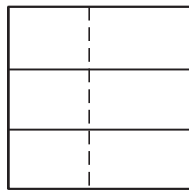
A



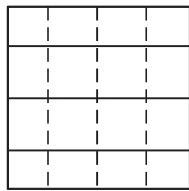
B



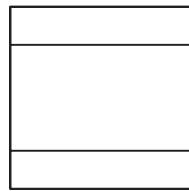
C



D



E



F

**Test Three: Questions**

28. Which word in brackets is most opposite in meaning to the word in capitals?

PLAUSIBLE (appropriate, improbable, clichéd, artificial, distasteful)

29. The cost of an identical three-course lunch for four people was £56.00. The main course cost twice as much as the sweet and the sweet cost twice as much as the starter. How much did the main course cost per person?

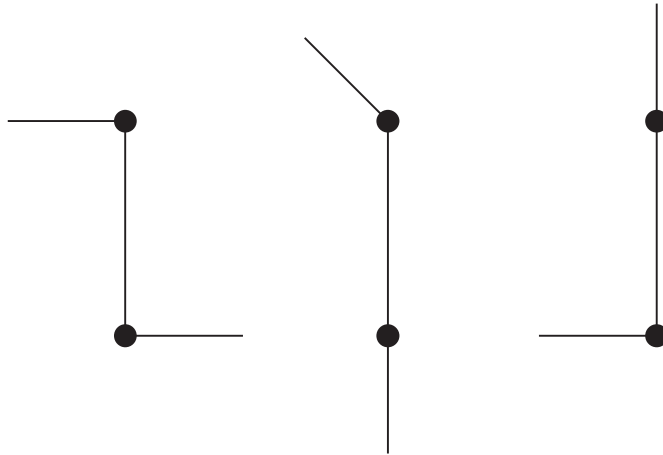
30. aplomb, dodge, graph, jerk, ?

What comes next?

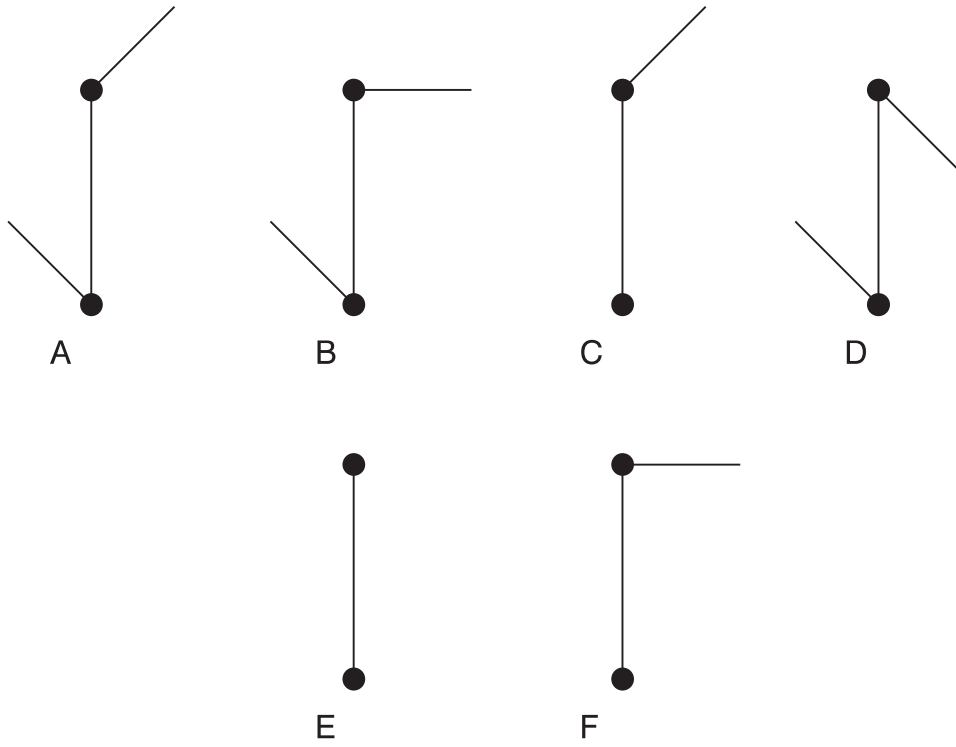
laugh, maroon, link, nickel, midnight

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31.



What comes next?

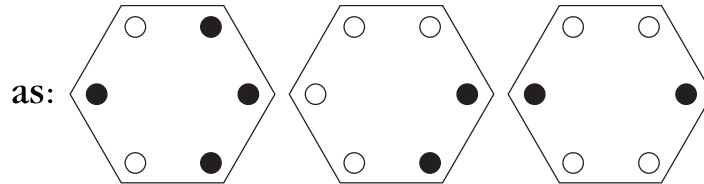
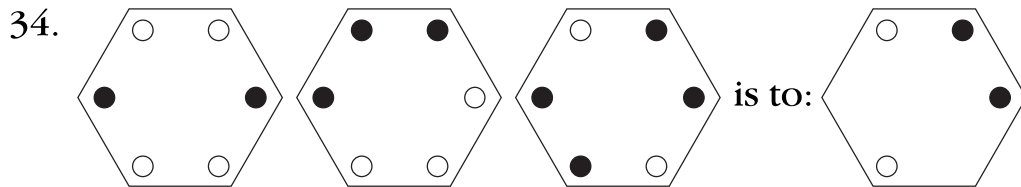


32.

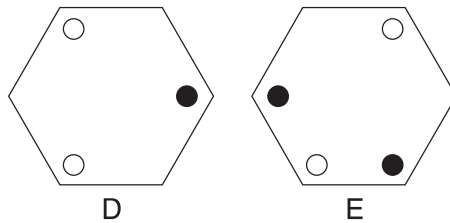
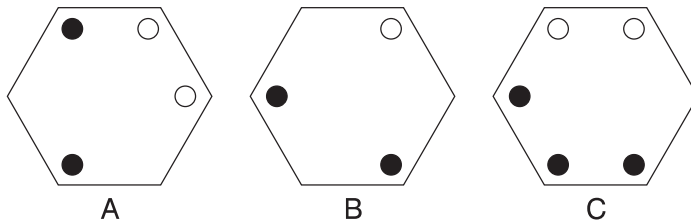
			14	
	22			
			34	
41				
		53		?

What number should replace the question mark?

33. OVATE GNOME is an anagram of which familiar phrase (3, 1, 4, 2)? Clue: make haste.

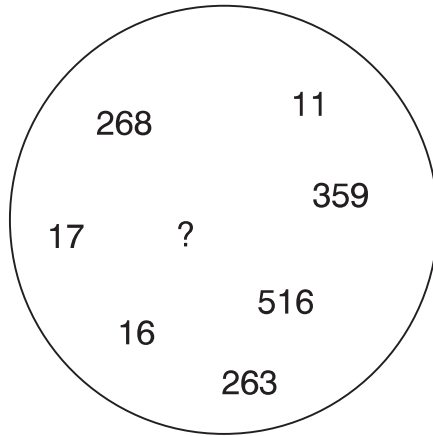


is to:



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35.

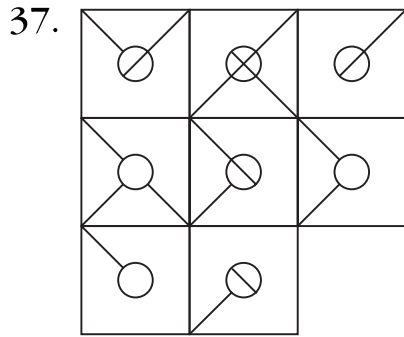


What number should replace the question mark?

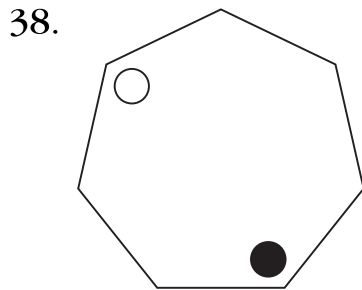
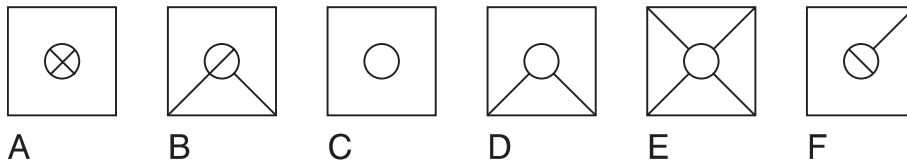
36.

R	I	N		
T	O	G		
N	S	A	S	D
		A	T	E
		T	C	H

Find the starting point and work from letter to adjacent letter vertically, horizontally and diagonally to spell out a 17-letter phrase (2, 7, 8).



Which is the missing tile?



At each stage the black dot moves three corners clockwise and the white dot moves four corners anti-clockwise. After how many stages will both dots be together in the same corner?

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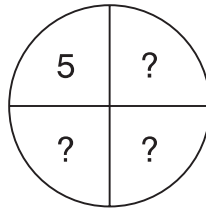
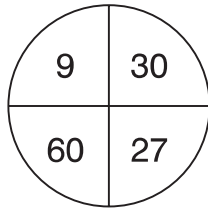
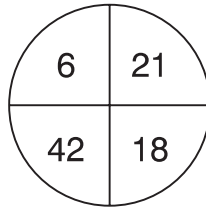
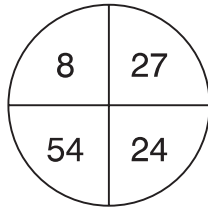
39. A A S G P A H A M

R S E E I I U G A

\* \* \* \* \*

The name of which reptile can be placed on the bottom row to complete nine three-letter words reading downwards?

40.



What numbers should replace the question marks?

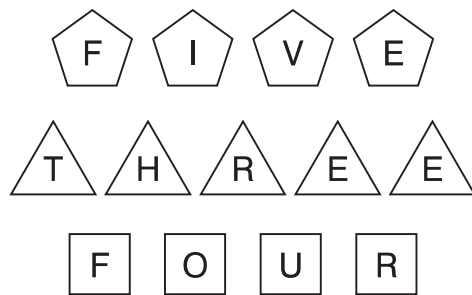
# Test Three: Answers

1. E: only lines that appear three times in the same position in the first three squares are carried forward to the final square
2. trombone: the rest are percussion instruments
3. head of school = principal  
fundamental truth = principle  
standing still = stationary  
writing materials = stationery  
smaller in amount = less  
smaller in number = fewer  
(score 1 point if all answers are correct)
4. 683: in the other numbers add the first and last digits to arrive at the middle digit
5. PAST, FUTURE
6. L
7. D: to each arc, add a quarter of a circle clockwise
8. ESCALATE, HEIGHTEN



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9. 30, 26: there are two alternate sequences. Add 5 starting at 1. Subtract 5 starting at 50.
10. acellular, acerbated, acerbates, acescence, acescency, acetabula, acetamide, acetified
11. D
12. B: start at the bottom left-hand corner square and work along the bottom row, then back along the next row up etc, repeating the numbers 38219
13. government
14. E: each line across and down contains one each of the three symbols. In each line one symbol is black, and one is upside down.
15. PAMPHLET, BROCHURE
16. VHU: the numbers spelled out below are the number of sides in the figures in which they appear



17. 4:  $6 \times 9 = 54$  (reading down the middle two blocks)
18. quirky

19.  $600: 72 \div 12 \times 100$
20. C: looking across and down the triangles turn through  $90^\circ$
21. IVH: the first letter moves three places in the alphabet forwards: FghI; the second letter moves four letters in the alphabet forwards: RstuV; the third letter moves two places in the alphabet backwards: JiH
22. C
23. C: each circle is repeated rotated
24. PROPELLER
25. 11: there are two alternate sequences: +3 and -4
26.  $\frac{14}{55} \times \frac{77}{56} = \frac{1}{5} \times \frac{7}{4} = \frac{7}{20}$
27. C: each row and column contains six complete lines and six broken lines
28. improbable

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29. £8.00 per person:

starter = 1 unit  
sweet = 2 units  
main course = 4 units  
= 7 units in total

Therefore, cost per unit =  $£56 \div 7 = £8.00$ .

The main course, therefore, cost  $4 \times 8 = 32$  (or £8.00 per person).

30. maroon: the letters start and finish with the alphabetic sequence: ABcDEfGHiJKlMN

31. C: the top arm moves  $45^\circ$  clockwise at each stage and the bottom arm moves  $90^\circ$  clockwise

32. 55: each number indicates its position in the grid. 55 indicates row 5 column 5.

33. GET A MOVE ON

34. B: only dots that appear in the same position just twice in the first three hexagons are carried forward to the final hexagons

35. 12: add the digits of each three-figure number to obtain the two-digit numbers

36. NO STRINGS ATTACHED

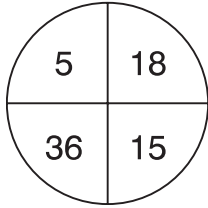
37. C: in each row and column only lines that are common to the first two squares are carried forward to the final square

**Test Three: Answers**

38. They will never appear together in the same corner as in a heptagon three corners clockwise is the same as four corners anti-clockwise.

39. CHAMELEON: to produce ARC, ASH, SEA, GEM, PIE, AIL, HUE, AGO, MAN

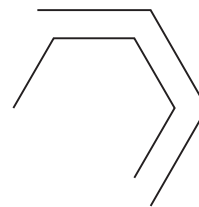
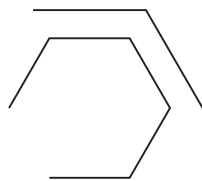
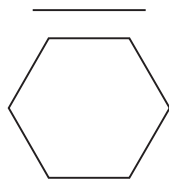
40.



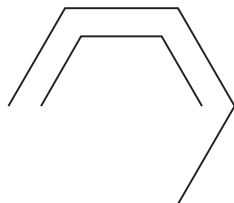
Top left is a third of bottom right, bottom right is three less than top right and top right is half of bottom left.

# Test Four: Questions

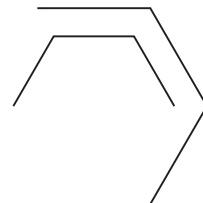
1.



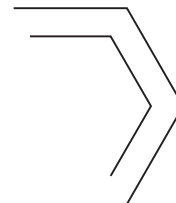
What comes next?



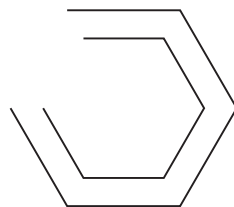
A



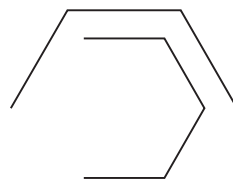
B



C



D



E

2. 100, 97.4, 94.8, ?, 89.6, 87

What number should replace the question mark?

3.

E	A	D
		I
P	A	

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.

4. Which number is the odd one out?

9654 4832 5945 7642 7963 8216 3649

5. Which two words are closest in meaning?

qualified, practicable, puissant, feasible, mundane, fine

6. Identify two words (one from each set of brackets) that have a connection (analogy) with the words in capitals and relate to them in the same way.

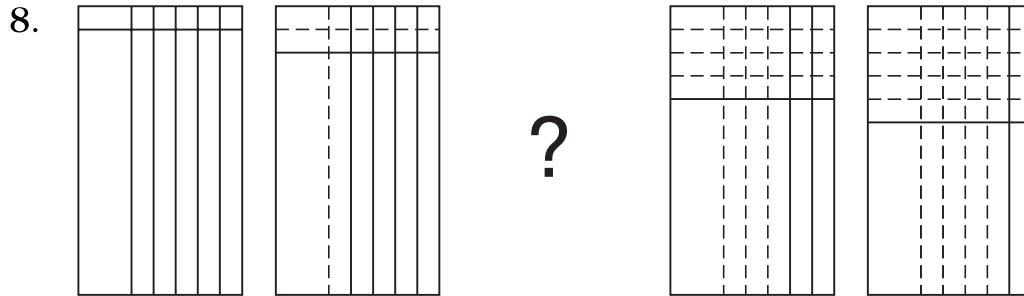
FIRST (second, next, last)

PENULTIMATE (last, third, previous)

7. Find five consecutive numbers below that total 23.

6 2 9 3 4 7 2 9 3 2 6 4 9 1 2


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Draw the missing figure in the above sequence.

9. Which word in brackets is most opposite to the word in capitals?

SLEEK (sordid, unimaginative, disorderly, dishevelled, oblique)

10. 



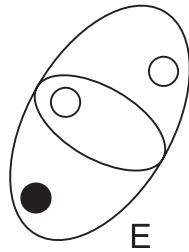
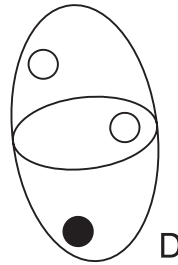
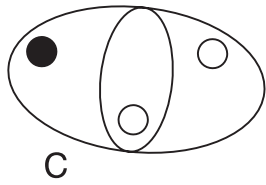
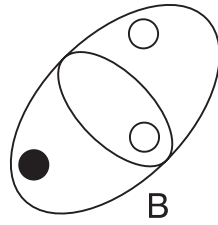
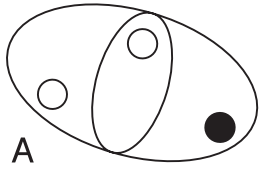


What number should replace the question mark?

11. Change one letter only in each of the words below to produce a familiar phrase.

AND FEEL SO TIE WIRE

12. Which is the odd one out?



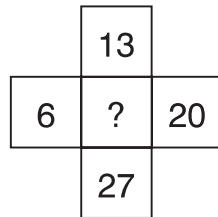
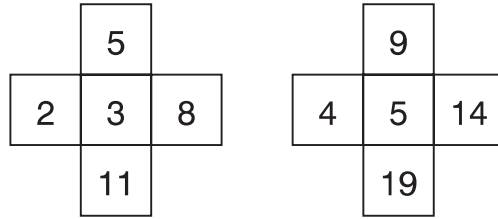
13. Which is the odd one out?

trivet, tributary, triptych, trident, triad



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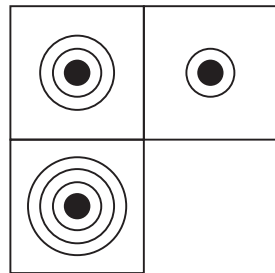
14.



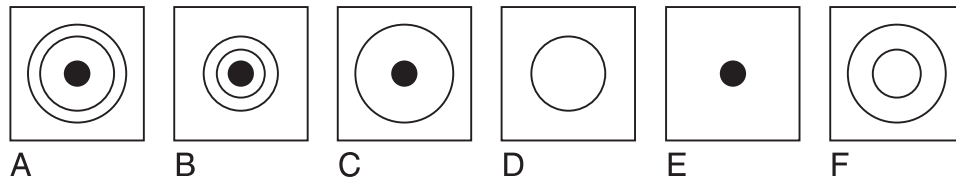
What number should replace the question mark?

15. 5862 is to 714  
and 3498 is to 1113  
and 9516 is to 156  
therefore 8257 is to ?

16.

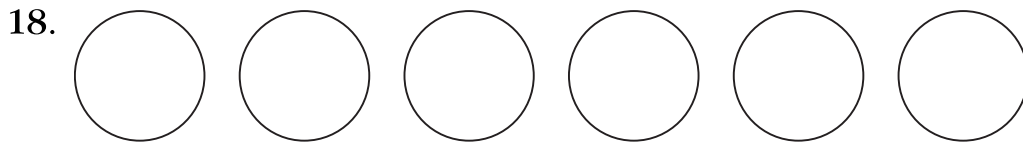


Which is the missing tile?



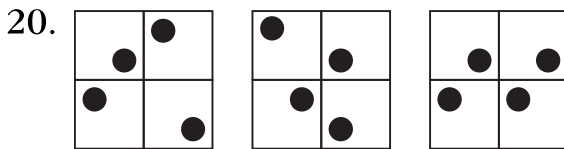
**Test Four: Questions**

17. mohair is to wool as shantung is to: silk, cotton, linen, nylon, fabric

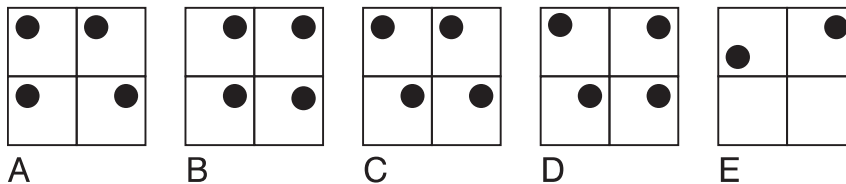


Place the numbers 1–6 into the circles, one number per circle, so that: the sum of the numbers 4 and 1, and all the numbers between them total 12; the sum of the numbers 4 and 6, and all the numbers between them total 21; the sum of the numbers 2 and 1, and all the numbers between them total 8.

19. If meat in a river (3 in 6) is T(HAM)ES, can you find a monkey in a tall building (3 in 10)?



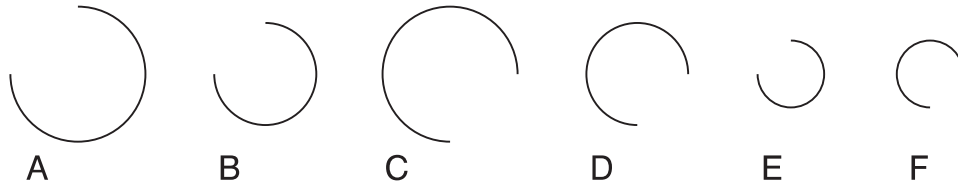
What comes next in the above sequence?



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Which arc is missing?



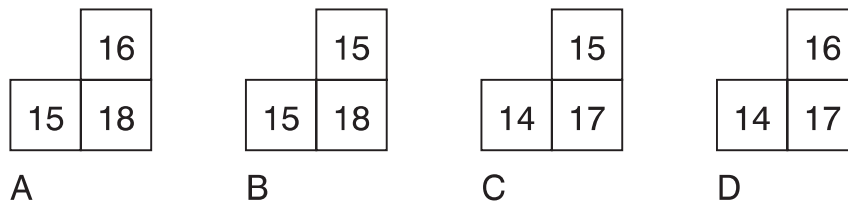
22. Which four bits can be joined together to form two words that have opposite meanings?

ERT, UCE, DES, END, EXP, EAR, AND, SIP, RED, GOS

23. 

7	10	13	16
9	12	?	18
11	?	?	20
13	16	19	22

Which is the missing section?



24. Identify two words that sound alike but are spelled differently, which mean:

a straight line connecting two points on a curve

rope

25. Find the ages of Mary, George, Alice, Claire and Stephen if:

Mary + George = 33 years between them

Alice + Claire = 95 years between them

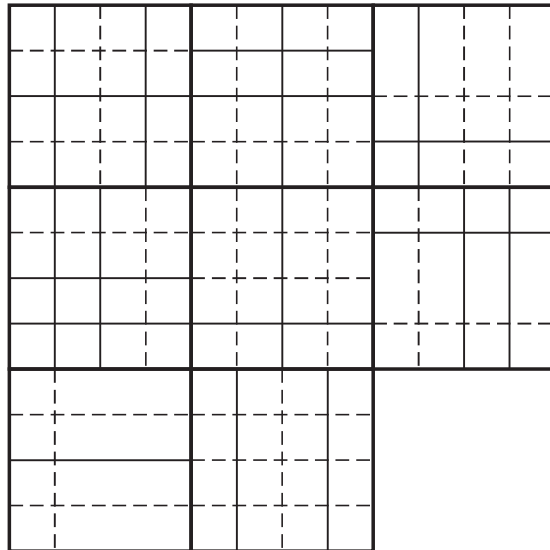
Stephen + Mary = 72 years between them

Mary + Claire = 87 years between them

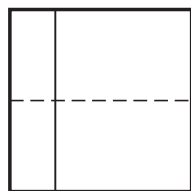
Stephen + George = 73 years between them

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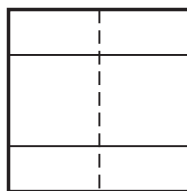
26.



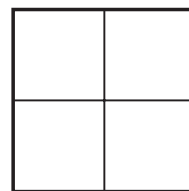
Which is the missing tile?



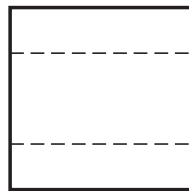
A



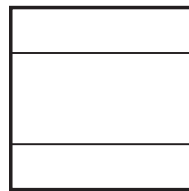
B



C



D



E

27. Using the four letters below only, create a seven-letter word.

CILT

28. 53 (3) 59

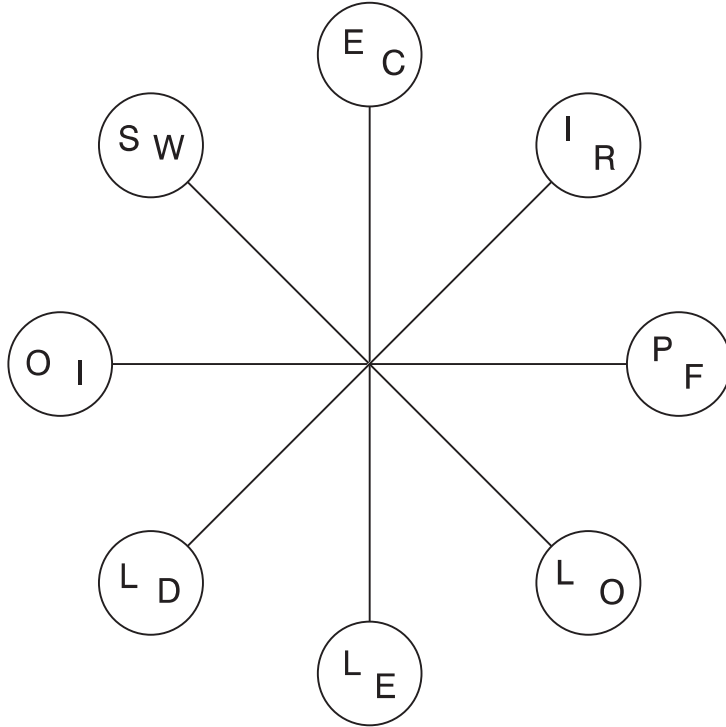
92 (4) 98

34 (2) 38

71 (?) 79

What number should replace the question mark?

29.



Work clockwise round the circles to spell out two eight-letter words that are synonyms. 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.

30.



Draw the missing figure in the above sequence.

31. abashed, derail, little, ?

What comes next?

mellow, entail, leader, elicit, status

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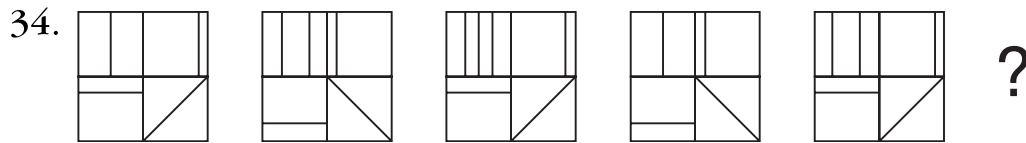
32. Produce an eight-letter word by joining together two of these four-letter sets.

cred, agon, lues, once, deva, some, come, pent

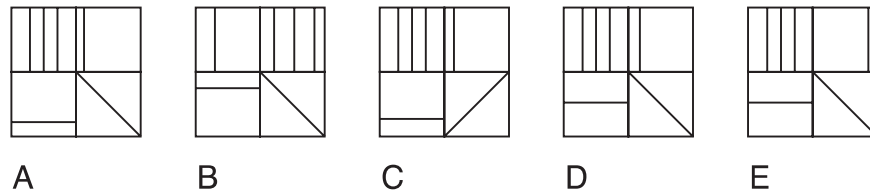
33.

20	14	12	24	33
3	10	16	15	18
17	7	4	8	6
5	1	9	30	36
39	21	13	2	11

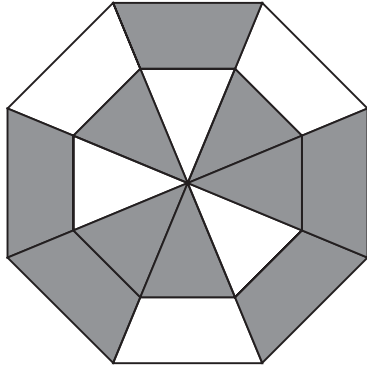
What number is three places away from itself plus three, two places away from itself multiplied by two, two places away from itself less four and two places away from itself divided by three?



What comes next?

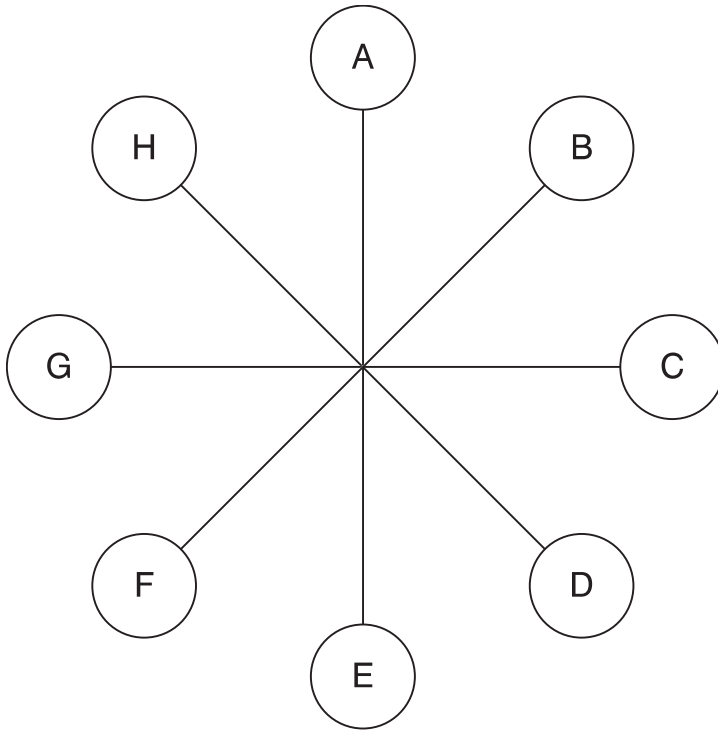


35.



What percentage of the figure is shaded?

36.



What letter is two letters away clockwise from the letter that is directly opposite the letter three letters away anti-clockwise from the letter C?



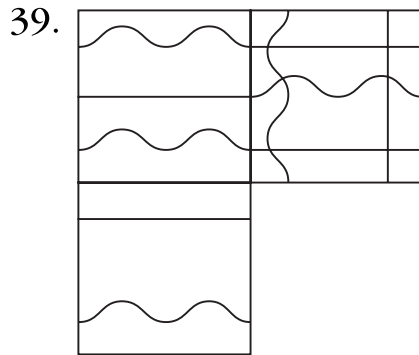
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37.

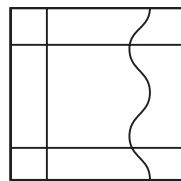
B	E	R
I	E	
	T	A

Spiral clockwise round the perimeter and finish at the centre square to spell out a nine-letter word. You must find the starting point and provide the missing letters.

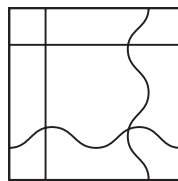
38. What is one-third of one-quarter of one-fifth of one-half of 120?



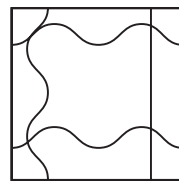
Which is the missing tile?



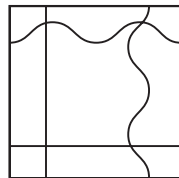
A



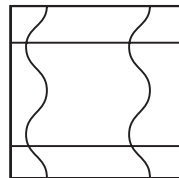
B



C



D



E

**Test Four: Questions**

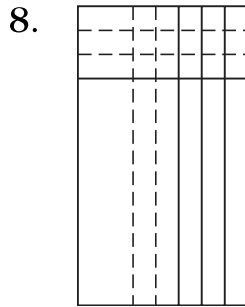
40.

1	10	7	16
28	19	22	13
25	34	31	40
?	43	46	37

What number should replace the question mark?

# Test Four: Answers

1. B: the inner hexagon is being dismantled one side at a time working anti-clockwise, while the outer hexagon is being constructed one side at a time working clockwise
2. 92.2: deduct 2.6 at each stage
3. DISAPPEAR
4. 3649: in all the others multiply the first two digits together to produce the number formed by the last two digits
5. practicable, feasible
6. second, last
7. 72932



Vertical lines turn dotted, one at a time at each stage. One horizontal line is added at each stage, and the previous lines become dotted.

9. dishevelled

10. 1417:  $42 \div 3 = 14$ ,  $51 \div 3 = 17$

11. ADD FUEL TO THE FIRE

12. E: the rest are the same figure rotated

13. tributary: in the other words the prefix tri- refers to three

14. 7: the numbers round the centre increase by seven (in the others they increase by three and five respectively)

15. 157:  $7 + 8 = 15$ ,  $2 + 5 = 7$

16. B: looking across an outer circle is removed, looking down an outer circle is added

17. silk

18. 425136 or 631524

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19. SKYSCR(APE)R
20. D: looking across, the dot in the top left-hand quarter moves to the opposite corner, the dot in the top right-hand quarter moves one corner anti-clockwise at each stage, the dot in the bottom left-hand quarter moves between the top two corners, and the dot in the bottom right-hand quarter moves one corner clockwise at each stage
21. C: the first three arcs are being repeated; and the position of the arc shifts  $180^\circ$
22. EXPAND, REDUCE
23. C: looking across each line add three; looking down each column add two
24. chord, cord
25. Mary 16, George 17, Alice 24, Stephen 56, Claire 71
26. E: looking across and down, lines are carried forward from the first two squares to the final square when they appear in the same position twice in the first two squares, however, they then change from complete to broken lines, and vice versa
27. ILLICIT
28. 9:  $(7 \times 9) \div (7 \times 1)$
29. FOLLOWER, DISCIPLE