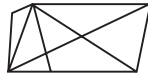
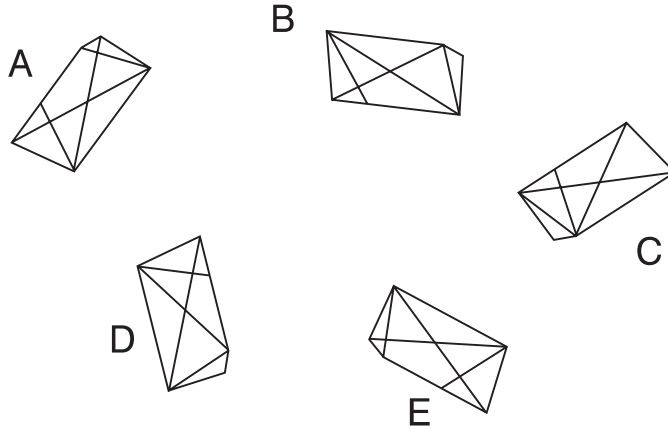


15.



Which of the figures below, when rotated correctly, is a mirror-image of the figure above?



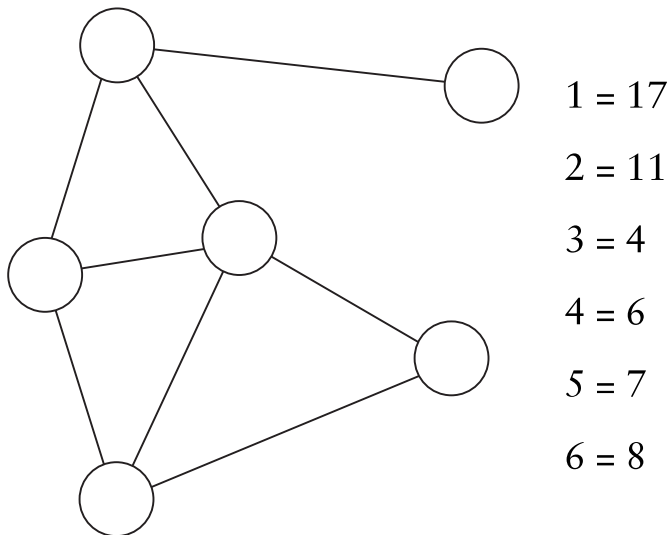
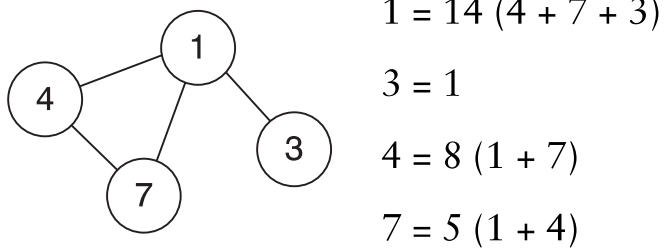
16. I have collected 253 strawberries which I want to put into punnets for handing out to my neighbours. All punnets must contain the same number of strawberries and I wish to use as few punnets as possible. How many of my neighbours received a punnet of strawberries, and how many strawberries did each punnet contain?

Answer

17. Which is the odd one out?

pivotal, incidental, substantive, seminal, salient

18. Insert the numbers listed into the circles so that – for any particular circle – the sum of the numbers in the circles connected to it equals the value corresponding to that circled number in the list. For example:

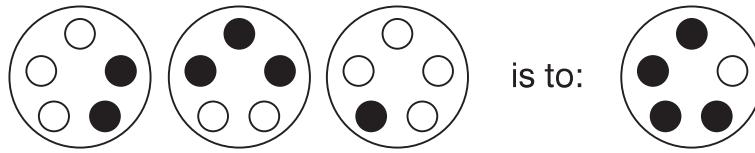


19. LIGAMENT, MARKSMAN , ? , ELEGANCE, AGITATED

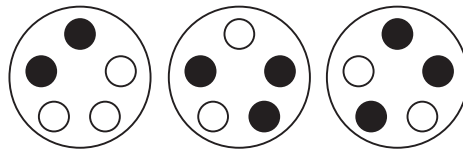
Which word is missing?

KINETICS, SKELETAL, MONASTIC, GLOSSARY,
SPECIMEN

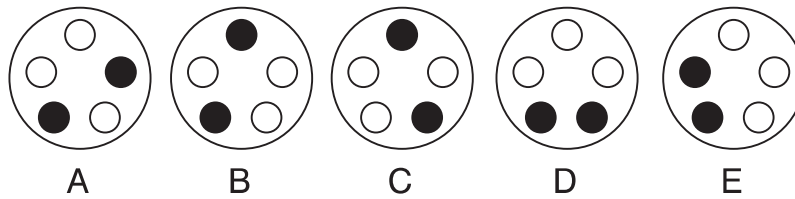
20.



as:



is to:



21. Which of the following is not an anagram of a type of fish?

SO URGENT

ODD HACK

THE LANDS

SANDIER

FIT CASH

UNFOLDER

$$22. \frac{(39 + 56)}{60\%} = ? \times 3$$

Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

$$\text{a. } \frac{273}{7} \quad \text{b. } \frac{245}{7^2} \quad \text{c. } \frac{133}{7} \quad \text{d. } 5^2 - 7 \quad \text{e. } 4^2 + 5$$

23. Which two words are closest in meaning?

trivial, idiomatic, abject, foolish, vernacular, lively

24. What is the value of $-12 + -15$?

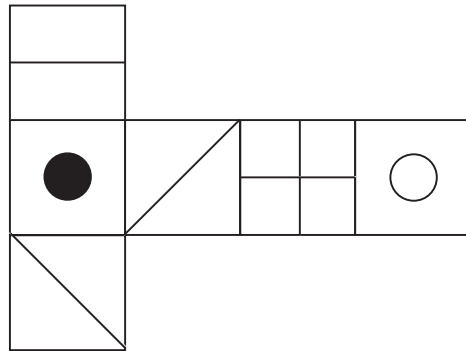
Answer

25. A B C D E F G H

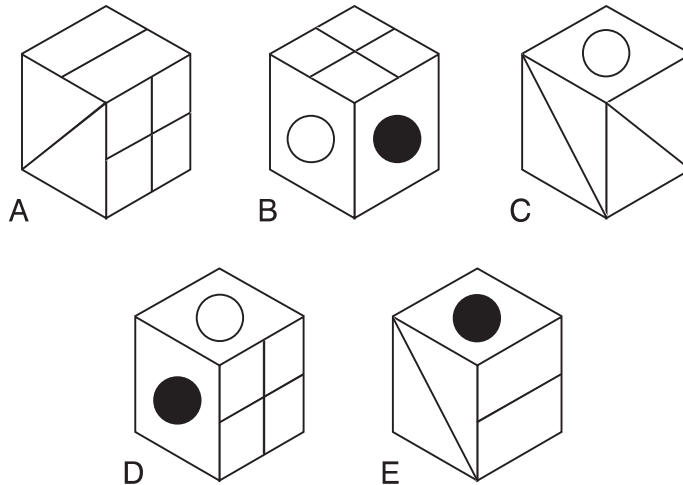
What letter is three to the right of the letter immediately to the left of the letter three to the left of the letter two to the right of the letter F ?

Answer

26.



When the above is folded to form a cube, just two of the following can be produced. Which two?



27. Melt a teaspoonful of butter in the pan, add the cake mixture, and stir over a medium heat.

One word has been removed from the passage above. Select that word from the choice below and reinstate it into its correct place in the passage.

- a. oven b. frying c. powder d. briskly e. slow f. soft

28. Identify two words (one from each set of brackets) that form a connection (analogy), thereby relating to the words in capitals in the same way.

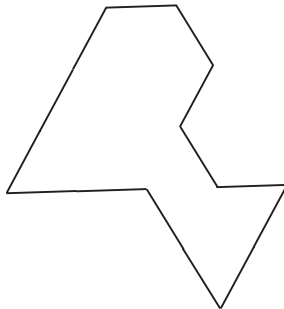
CORNET (brass, horn, trumpet, wind)

FIFE (woodwind, drum, clarinet, flute)

29. 12348 is to 32418
and 12489 is to 84129
and 24567 is to 57624
therefore 12789 is to ?

Answer

30. By making a single cut, divide the shape into two identical (size and shape) pieces.



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IQ Test Eleven

Circle the answer(s), or write in the answer box provided.

1. Which word in brackets is closest in meaning to the word in capitals?

MAGNILOQUENT (exalted, enlarged, gifted, favoured, hypnotic)

2. Which is the odd one out?

A $\Sigma \updownarrow \text{F} \text{K} \updownarrow \text{\$} \text{\pounds} \& \text{\$} \text{\textcircled{F}} \text{\textcircled{K}}$

B $\text{K} \text{\textcircled{K}} \Sigma \text{\$} \text{\textcircled{F}} \& \text{\textcircled{K}} \text{\$} \text{\pounds} \updownarrow \text{F} \updownarrow$

C $\text{F} \text{\$} \text{\textcircled{K}} \text{\$} \text{\textcircled{K}} \updownarrow \& \Sigma \updownarrow \text{\pounds} \text{\textcircled{F}}$

D $\text{\textcircled{K}} \text{\textcircled{F}} \updownarrow \text{\pounds} \text{\textcircled{K}} \text{\$} \text{K} \updownarrow \Sigma \text{\$} \text{F} \text{\pounds}$

E $\& \text{\textcircled{K}} \text{F} \text{\textcircled{F}} \text{\$} \updownarrow \Sigma \text{\pounds} \updownarrow \text{\pounds} \text{\textcircled{K}} \text{\$}$

3. A company hires a fleet of buses to transport its workforce to a conference. If 689 workers attended the conference, and each bus seats 35 passengers, how many buses are required?

Answer

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

BEOPLA

ICKTEA

WLONUD

XOLEIN

ARHCLO

HATOND

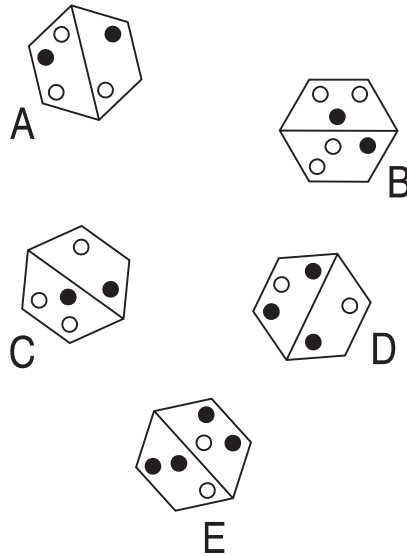
INMETL

5. $0.85 \times 220 = \frac{?}{25\% \times 20}$

Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

- a. $1090 - 145$ b. 935 c. $85 + 29^2$ d. $31^2 - 28$ e. 945

6. Which is the odd one out?



7. Select two words that are synonyms, plus an antonym of these two synonyms, from the list of words below.

foolish, lavish, welcome, manifest, laughable, vague, abstruse

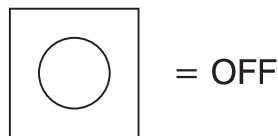
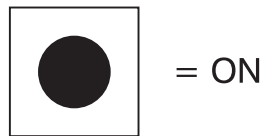
8. An electrical circuit wiring a set of four lights depends on a system of switches A, B, C and D. Each switch when working has the following effect on the lights:

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



In the following, switches D A B C are thrown in turn, with the result that Figure 1 is transformed into Figure 2. One of the switches is therefore not working and has had no effect on the numbered lights.

Identify which one of the switches is not working.

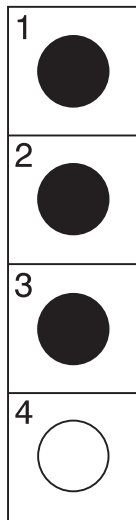


Figure 1

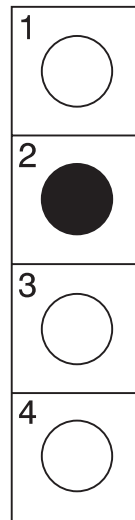


Figure 2

9.

Z		W	T
W	V		Q
U	T		O
T		Q	N

Which is the missing section?

A

Y	
	T
	R
S	

B

X	
	R
	T
S	

C

Y	
	T
	R
R	

D

X	
	T
	R
S	

10. Which four-figure number contains four different digits and meets the following criteria? The first digit is twice the value of the fourth digit and two more than the second digit. The third digit is one more than the first digit and four more than the fourth digit.

Answer

11. Change the position of four words only in the sentence below in order for it to make complete sense.

Given this e-mail if you do not want to use the user name deselect here as an option name.

12. 100, 93, 79, 58, ?

What number should replace the question mark?

Answer

13. Which is the odd one out?

panther, jaguar, jackal, tiger, puma

14.

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

The top set of six numbers has a relationship to the set of six numbers below. The two sets of six boxes on the left have the same relationship as the two sets of six boxes on the right. Which set of numbers should therefore replace the question marks?

A

5	9	5	9	1	2
---	---	---	---	---	---

B

5	6	4	6	3	13
---	---	---	---	---	----

C

6	10	5	9	2	1
---	----	---	---	---	---

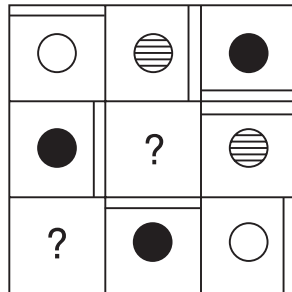
D

5	9	1	2	5	9
---	---	---	---	---	---

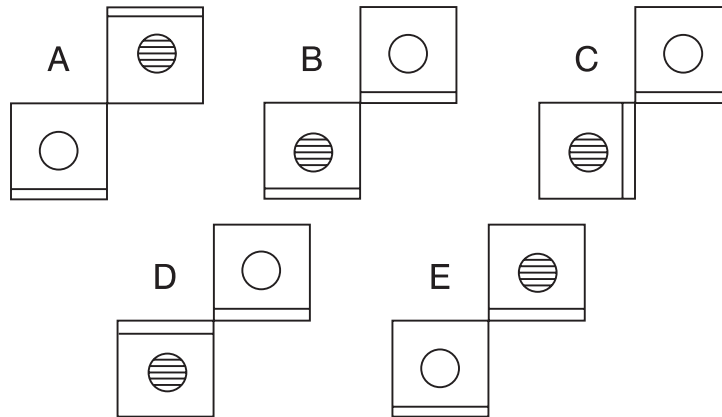
E

5	7	5	9	1	2
---	---	---	---	---	---

15.



Which are the two missing squares?



16. By adopting a more consensual leadership style than his, he sought to restore party unity on integration with Europe and other issues.

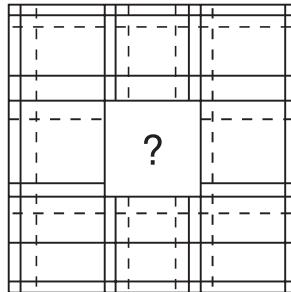
One word has been removed from the passage above. Select that word from the choice below and reinstate it into its correct place in the passage.

- a. flagging b. successive c. predecessor d. urgent e. colleague
f. Western

17. Insert numbers into the remaining blank squares so that the sums in each line and column are correct. All numbers to be inserted are less than 10.

	×		-		=	9
+	■	+	■	-	■	-
	-		×	4	=	
-	■	-	■	×	■	×
	-	5	+		=	
=	■	=	■	=	■	=
1	×		÷		=	

- 18.



Draw the contents of the middle tile in accordance with the rules of logic already established.

19. Select two words that are synonyms, plus an antonym of these two synonyms, from the list of words below.

attentive, profane, abrupt, brazen, wise, fearful, offhand

20. A photograph measuring 3.9×4.6 cm is to be enlarged. If the shortest side of the enlargement is 17.55 cm, what is the length of the longest side?

Answer

21. Identify two words (one from each set of brackets) that form a connection (analogy), thereby relating to the words in capitals in the same way.

PASCAL (speed, frequency, pressure, current)

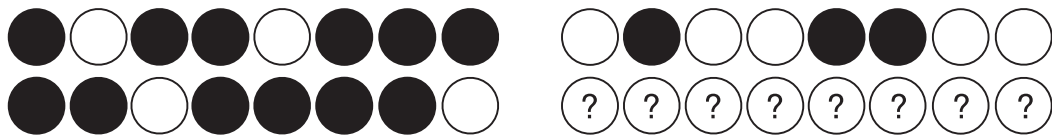
NEWTON (force, power, heat, energy)

22. In the two numerical sequences below, one number that appears in the top sequence should appear in the bottom sequence and vice versa. Which two numbers should be changed round?

12, 14, 18, 22, 32, 34, 38

13, 16, 26, 24, 28, 36, 42

23.



Which set of diagrams below should replace the question marks?

- A
- B
- C
- D
- E

24. Identify two words (one from each set of brackets) that form a connection (analogy), thereby relating to the words in capitals in the same way.

DIAGONAL (opposite, oblique, adjacent, direction)

CROSSWISE (transverse, path, course, vertices)

25.



Which symbol is missing?

- A ▲
- B ◀
- C ▼
- D ▶

26. A B C D E F G H

What letter is three to the left of the letter immediately to the right of the letter which is four to the right of the letter B ?

Answer

27. In 15 years' time the combined age of my four brothers will be 107. What will it be in six years' time?

Answer

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

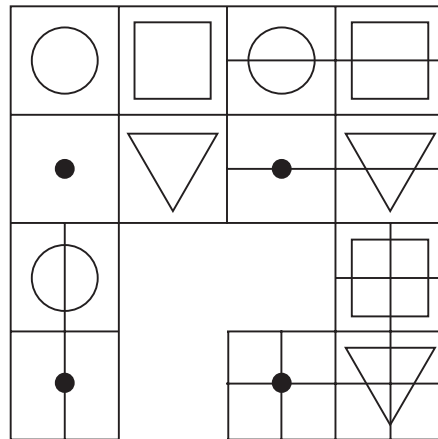
DECADENT (overjoyed, clean, ethical, immodest, relaxed)

29. $? + \frac{96 + 57}{9} = 18^2 - \frac{1038}{2(\sqrt{9})}$

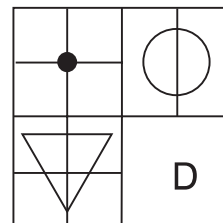
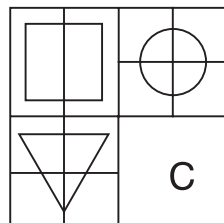
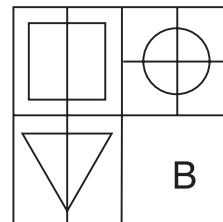
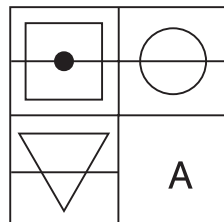
Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

- a. $\frac{67 \times 36}{77 - 59}$ b. $12^2 + 12$ c. $11^2 + \frac{45}{3}$ d. $\frac{16^2}{2}$ e. $\frac{96}{0.75}$

30.



Which is the missing section?



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IQ Test Twelve

Circle the answer(s), or write in the answer box provided.

1. What is $-4 - +13$?

Answer

2. Identify two words (one from each set of brackets) that form a connection (analogy), thereby relating to the words in capitals in the same way.

TEMPO (sound, short, volume, speed)

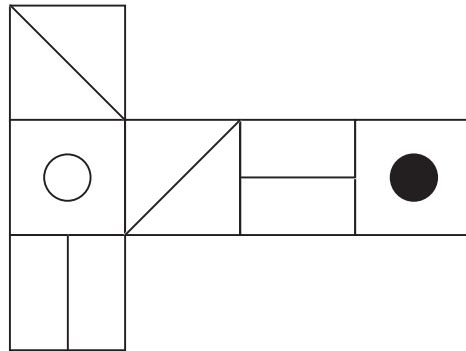
CRESCENDO (vigour, increase, scale, speed)

3. $\frac{8 \times 4 \times 6}{?} = \frac{4 \times 11 \times 2 \times 2 \times 5.5}{11^2 \times 0.5}$

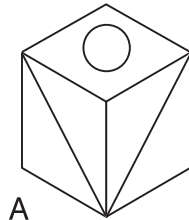
Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

a. $2^3 + 5$ b. $\frac{144}{12} + 2$ c. $3^2 + 5$ d. $\frac{24}{3}$ e. $2^2 \times 3$

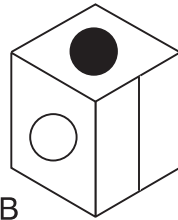
4.



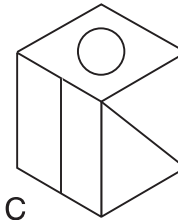
When the above is folded to form a cube, just two of the following can be produced. Which two?



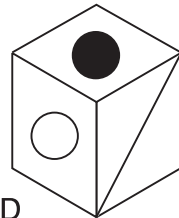
A



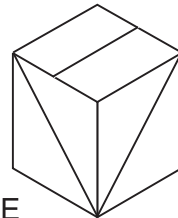
B



C



D

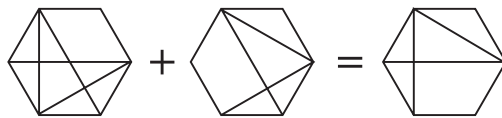
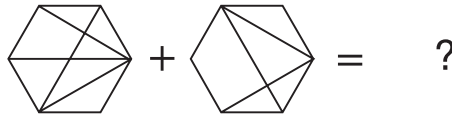


E

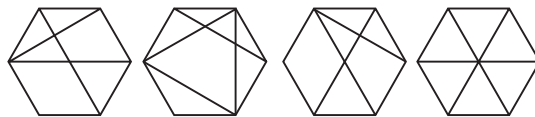
5. Which word in brackets is most opposite in meaning to the word in capitals?

ABASHED (confident, occupied, active, durable, absolved)

6.



Which hexagon below should replace the question mark?



A

B

C

D

7. 10, 50, 13, 45, 18, 38, ?, ?

What two numbers should replace the question marks?

Answer

8. A B C D E F G H

What letter is two to the right of the letter which comes five to the left of the letter that comes two to the right of the letter which is three to the left of the letter H?

Answer

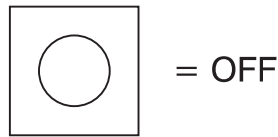
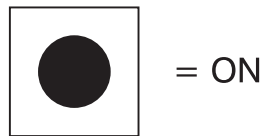
9. An electrical circuit wiring a set of four lights depends on a system of switches A, B, C and D. Each switch when working has the following effect on the lights:

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



In the following, switches A C D B are thrown in turn, with the result that Figure 1 is transformed into Figure 2. One of the switches is therefore not working and has had no effect on the numbered lights.

Identify which one of the switches is not working.

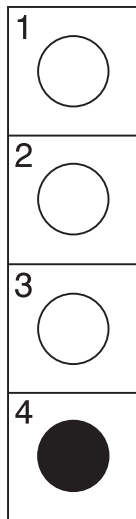


Figure 1

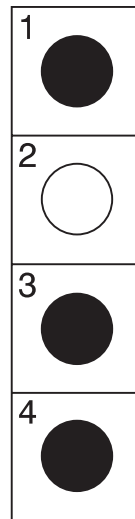
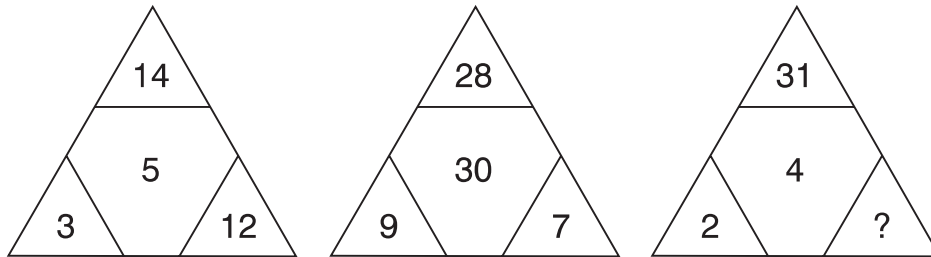


Figure 2

10.



What number should replace the question mark?

Answer

11. Cuttlefish have some importance, not only for their flesh, which is eaten in many countries, but also for the bone of their shell and for the ink they eject to cloud the water as protection from their enemies.

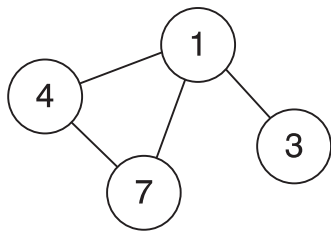
One word has been removed from the passage above. Select that word from the choice below and reinstate it into its correct place in the passage.

a. edible b. soft c. brown d. economic e. surprising f. foreign

12. Which two words are closest in meaning?

effects, parameter, section, criterion, periphery, view

13. Insert the numbers listed into the circles so that – for any particular circle – the sum of the numbers in the circles connected to it equals the value corresponding to that circled number in the list. For example:

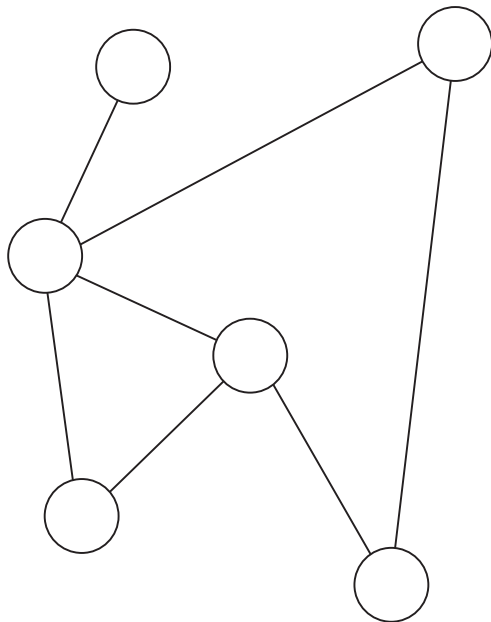


$$1 = 14 (4 + 7 + 3)$$

$$3 = 1$$

$$4 = 8 (1 + 7)$$

$$7 = 5 (1 + 4)$$



$$1 = 16$$

$$2 = 5$$

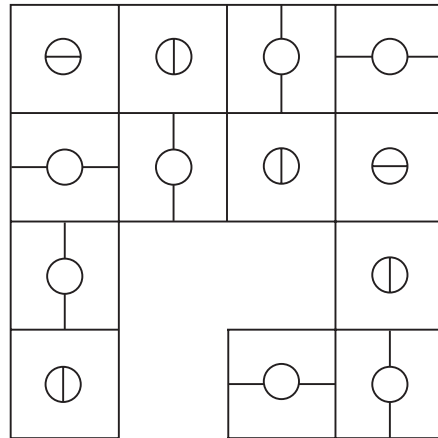
$$3 = 11$$

$$4 = 5$$

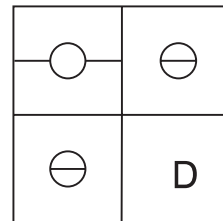
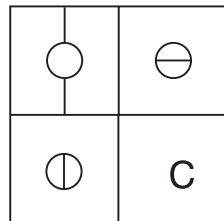
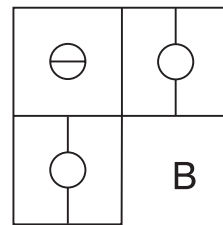
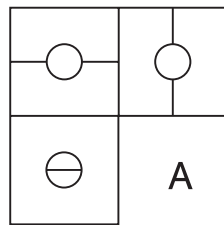
$$5 = 1$$

$$6 = 4$$

14.



Which is the missing section?



15. Select two words that are synonyms, plus an antonym of these two synonyms, from the list of words below.

grateful, blithe, unkind, buoyant, morose, relieved, worried

16.

'Ω X H Σ M Ψ ● 'Ω X H Σ M Ψ ○ 'Ω X H Σ
M Ψ ● ● 'Ω X H Σ M Ψ ○ ○ 'Ω X H Σ M ● ●
'Ω X H Σ M Ψ ○ ○ ○

Which two symbols are missing?

- A ● 'Ω
- B ○ 'Ω
- C 'Ω X
- D Ψ ●
- E ● Ψ

17. Select two words that are synonyms, plus an antonym of these two synonyms, from the list of words below.

fatuous, inanimate, worthwhile, stifled, active, indisposed, inert

18. 12, 34, 10, 11, 12, 5, 6, 7, 13, 14, ?, ?

Logically, what two numbers should replace the question marks?

Answer

19. may, rid, bar, sea, ???, den, row, led

What word is missing?

can, pan, pot, hem, leg

20. In a consignment of eggs 552 were cracked, which was 12 per cent of the total consignment.

How many eggs were in the consignment?

Answer

21. Change the position of five words only in the sentence below in order for it to make complete sense.

The domesticated peafowl has been feral in many parts of the Pacific but there are common populations in some world islands.

22. $\frac{1053 \div 13}{60\% \times 90} = \frac{?}{96}$

Complete the equation by correctly identifying the missing part of the calculation from the list of options below.

a. 168 b. 144 c. 132 d. $\sqrt{196} \times 7$ e. 13^2

23. Use every letter of the phrase THE RAVENOUS BAD PLAGUE once each only to spell out the names of three world rivers.

24. Which is the odd one out?

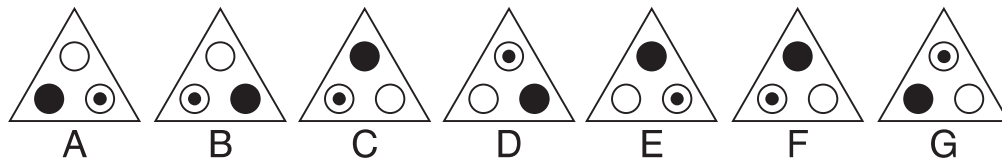
lax, torpid, remiss, lackadaisical, insouciant

25. In the two numerical sequences below, one number that appears in the top sequence should appear in the bottom sequence and vice versa. Which two numbers should be changed round?

0.75, 3, 5.25, 6.75, 9.75

1.25, 4, 7.5, 9.5, 12.25

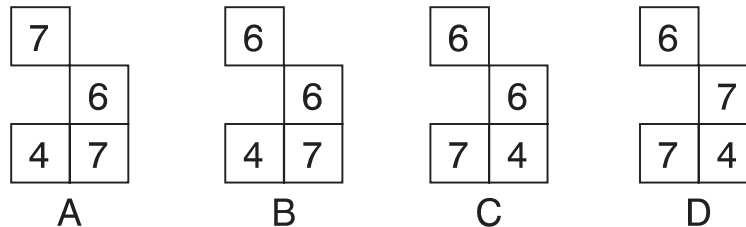
26. Which does not belong in this sequence?



- 27.

4		3	5
7	9		8
5			6
8	10	7	9

Which is the missing section?



28. Identify two words (one from each set of brackets) that form a connection (analogy), thereby relating to the words in capitals in the same way.

PIE (chart, circle, meat, loop)

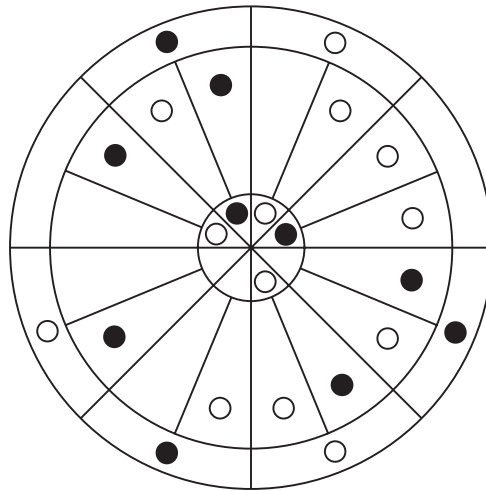
BAR (rod, section, column, coordinate)

29. The numbers in each set of nine relate to each other in a certain way. Work out the logic behind the numbers in the left-hand box in order to determine which number is missing from the right-hand box.

4	10	8		9	3	?
11	2	13		15	6	15
5	4	7		8	3	11

Answer

30.



Complete the pattern in accordance with the rules of logic already established.

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Answers, explanations and assessment

Answers to IQ Test One

1. A; each line moves 45° clockwise from top to bottom.
2. Synonyms: thrive, burgeon
Antonym: wither
3. 22 and 24: there are two interwoven sequences. Starting at 19, alternate numbers progress +2, +3, +4, +5. Starting at 20, alternate numbers progress +2, +4, +6, +8.
4. d, conserved: The institution houses collections of objects of artistic, historic and scientific interest, **conserved** and displayed for the edification and enjoyment of the public.
5. dispersion: it means scattering, the rest are gathering.
6. d

7. 47632: all the others are three-digit numbers followed by their square root, eg 361 followed by its square root, 19.

8. parade, somnambulate. The keyword to insert is walk: parade on a cat-walk, sleepwalk is to somnambulate.

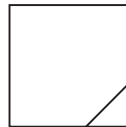
9. irreverent

10. 69237

A	B	C	D	E	E	C	B	D	A
1	2	5	9	3	3	5	2	9	1
7	2	9	3	6	6	9	2	3	7

11. e. 0.25

12.



Each line of three tiles across and down contains a line in the top corner, a line in the middle, a line in the bottom corner and a black dot.

13.

9	÷	3	×	2	=	6
+	■	-	■	×	■	+
6	+	1	-	4	=	3
÷	■	+	■	-	■	÷
3	×	3	-	6	=	3
=	■	=	■	=	■	=
5	÷	5	+	2	=	3

14. landrace, calendar
15. KP: there are two alternate sequences. Starting at A, ABcDefGhijK; starting at Z, ZYxWvuTsrqP.
16. E: each number on the bottom line is the sum of the digits of the number directly above it.
17. 8: 112 pairs of shoes = 224 shoes. $224 \div 28 = 8$.
18. C: A and B are the same string, albeit starting in a different position, as are D and E.
19. 2.5 and 3. In the top sequence the numbers progress $\times 1.5$. In the bottom sequence the numbers progress $\times 2.5$.
20. B: looking across and down the contents of the first two tiles are combined to produce the contents of the end tile.
21. anterior, obverse
22. If you are printing on glossy *media* or transparencies, place a support *sheet*, or a sheet of plain *paper*, beneath the *stack*, or load only one sheet at a time.
23. d
24. derivative, archetypal
25. Synonyms: excuse, condone
Antonym: condemn
26. D: the rest are the same figure rotated.

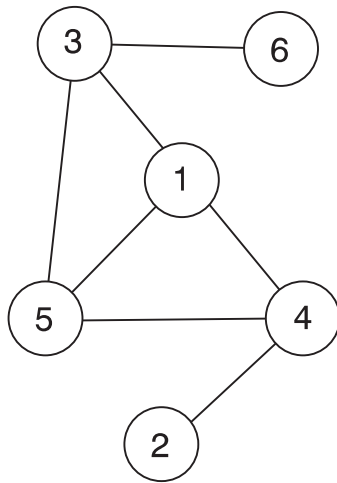
27. 1 apple costs £0.18 and 1 banana costs £0.14.
28. Switch C is faulty.
29. A: each line across and down contains one each of the lines in a different position (the lines are moving downwards one notch at a time; when they reach the bottom they return to the top position at the next stage).
30. Data processing is used for a wide variety of applications, including the processing of seismic data for oil and mineral exploration, the analysis of new product designs, the processing of satellite imagery, and the analysis of data from scientific experiments.

Assessment

Scores between:	Rating
27–30	Very highly exceptional
24–26	High expert
21–23	Expert
19–20	Very high average
17–18	High average
13–16	Middle average
10–12	Low average
6–9	Borderline low
3–5	Low
0–2	Very low

Answers to IQ Test Two

1. D: looking across, numbers in each line progress +1, -2, +3, -4; looking down, numbers progress -4, +3, -2, +1.
2. Switch B is faulty.
3. WNW, WSW, SSW, SSE, SE, ESE, ENE, NNE
- 4.

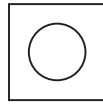


5. barren
6. Synonyms: spearhead, vanguard
Antonym: stern
7. D: columns 1 and 3 are the same symbols reversed, as are columns 2 and 4.
8. clarinet, harp, trumpet

9. 61 and 63 should be reversed. The first sequence progresses -11, -13, -15, -17, -19. The second sequence progresses -12, -14, -16, -18, -20.

10. fedora: the rest are a sequence where the first two letters are also the first two letters of the months March, April, May, June, July, August.

11.



Each line across and down contains a circle of each size and a black dot.

12. 34826: each number is the sum of the last two digits of the previous number, preceded by the remaining numbers in reverse.

13. *Sap* rises from the *root* of the maple tree in the form of crude sap, a solution of *material* that is absorbed from the *soil*.

14. 18.6, 37.6. There are two interwoven sequences: starting at 45 alternate numbers are -3.7. Starting at 4 alternate numbers are +7.3.

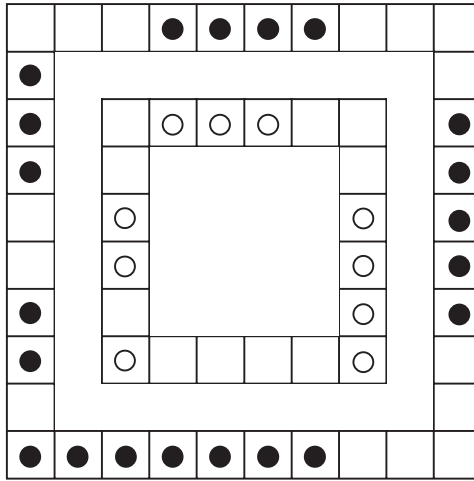
15. back, leg

16. a

17. Synonyms: practicable, feasible
Antonym: impossible

18. B: in the others the long hand moves 45° clockwise and the short hand moves 90° clockwise.
19. C: the water flows fastest at the narrowest point.
20. A
21. H
22. a
23. masticate, gnaw
24. B: ignore black symbols as they are not carried forward to the final circle. All white symbols are carried forward; however, circles change to squares and vice versa.
25. 18: multiply the bottom numbers to obtain the numbers at the top, albeit they are at the top of a different pyramid.
- 26.
- $$1 \frac{23}{27} \quad \frac{25}{4} \div \frac{27}{8} = \frac{25}{4} \times \frac{8}{27}$$
27. f, bleak: It is a largely agricultural country of varied scenery from **bleak** moorland, loughs and islands to the beautiful coastline around West Bay.
28. 13: in each line multiply the first and last numbers, then add 1 to obtain the middle number.
29. skin, hair

30.



In each square, start at the bottom left-hand square, and working clockwise, place one circle, then miss one square and place two circles, then miss two squares and place three circles, etc.

Assessment

Scores between:	Rating
27–30	Very highly exceptional
24–26	High expert
21–23	Expert
19–20	Very high average
17–18	High average
13–16	Middle average
10–12	Low average
6–9	Borderline low
3–5	Low
0–2	Very low

Answers to IQ Test Three

1. 6: looking down columns, the number formed by the three digits in column one plus the number formed by the three digits in column two, equals the number formed in column three. For example; $394 + 568 = 962$.
2. Because *shelter* is necessary for everyone, the problem of providing adequate *housing* has long been a concern, not only of *individuals* but also of governments.
3. Tuesday
4. Synonyms: prosaic, mundane
Antonym: fascinating
5. 11: the rule is replace -- with +, so $-26 + 37 = 11$.
6. A: lines from the first two boxes are carried forward to the third box, except when two lines appear in the same position, in which case they are cancelled out.
7. able, end. Each of these words can be preceded with the words in capitals: **parable** and **legend**.