



Time: One and half (01 ½) Hours

No of Pages: 08
No of Questions: 42

Answer All Questions.

Index No:

1. Which one of the five makes the best comparison?

Boat is to water as airplane is to:

a) SUN b) GROUND c) WATER d) SKY e) TREE

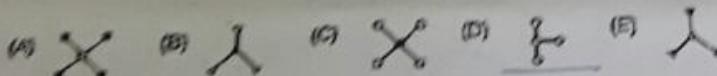
2. Which one of the five is least like the other four?

a) DOG b) CAR c) CAT d) BIRD e) FISH

3. John, twelve years old, is three times as old as his brother. How old will John be when he is twice as old as his brother?

a) 15 b) 16 c) 18 d) 20 e) 21

4. Which one of the five designs is least like the other four?



5. Jack is taller than Peter, and Bill is shorter than Jack.

Which of the following statements would be most accurate?

(A) Bill is taller than Peter.
(B) Bill is shorter than Peter.
(C) Bill is as tall as Peter.
(D) It is impossible to tell whether Bill or Peter is taller.

6. The price of an article was cut 20% for a sale. By what percent must the item be increased to again sell the article at the original price?

a) 15% b) 20% c) 25% d) 30% e) 40%

7. Mary had a number of cookies. After eating one, she gave half the remainder to her sister. After eating another cookie, she gave half of what was left to her brother. Mary now had only five cookies left. How many cookies did she start with?

a) 11 b) 22 c) 23 d) 45 e) 46

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8. Malan was both 13th highest and 13th lowest in a spelling contest.
How many people were in the contest?
a) 13 b) 25 c) 26 d) 27 e) 28

9. Which one of the numbers does not belong in the following series?
1 - 2 - 5 - 10 - 13 - 26 - 29 - 48
a) 2 b) 26 c) 5 d) 29 e) 48

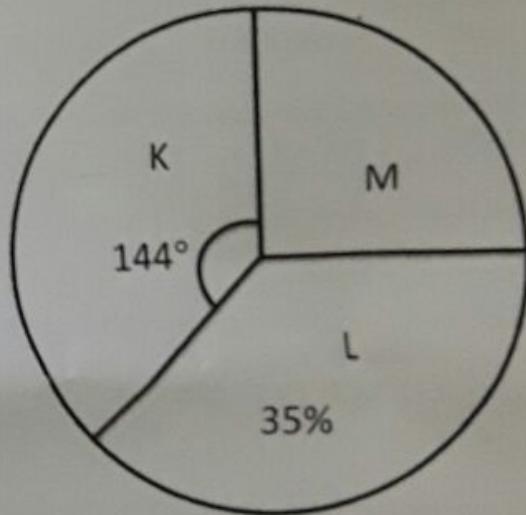
10. A fish has a head 9" long. The tail is equal to the size of the head plus one-half the size of the body. The body is the size of the head plus the tail.
How long is the fish?
a) 27" b) 54" c) 63" d) 72" e) 81"

11. Use the diagram to give your answer.

$$K+L+M = 1440,$$

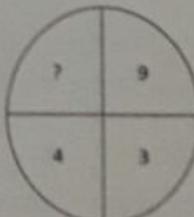
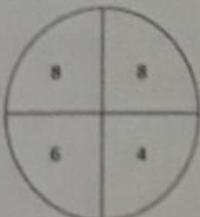
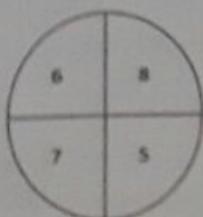
$$L-M = ?$$

a) 142
b) 144
c) 146
d) 148



$$\begin{aligned}
 K &= 144^\circ \\
 M &= 35\% \\
 L &= 100\% - 35\% - 144^\circ / 360^\circ \times 100\% \\
 L &= 100\% - 35\% - 40\% \\
 L &= 25\% \\
 L &= \frac{25}{100} \times 1440 \\
 L &= 360
 \end{aligned}$$

12. What number should replace the question mark?



a) 2 b) 6 c) 5 d) 9 e) 8

13. What number comes next in this sequence?

25, 32, 27, 36, ?

a) 27 b) 26 c) 25 d) 29 e) 28

14. A car travels at a speed of 40 mph over a certain distance and then returns over the same distance at a speed of 60 mph. What is the average speed for the total journey?

a) 48 b) 26 c) 30 d) 45 e) 56

15. What is the value of x?

$$64 - 12 \times 2 + 6 \div 3 = x$$

a) 48 b) 42 c) 30 d) 44 e) 16

16. What number should replace the x?

$$\frac{5}{6} + \frac{1}{7} = x$$

a) 5/42 b) 6/42 c) 35/6 d) 42 e) 6/35

17. Which two numbers should replace the question marks?

19, 20, 21, ?, ?, 26, 28, 32, 33, 40

a) 22 24 b) 42 44 c) 30 34 d) 24 28 e) 23 25

18. 12593 is to 35291 and 29684 is to 46982 therefore 72936 is to ?

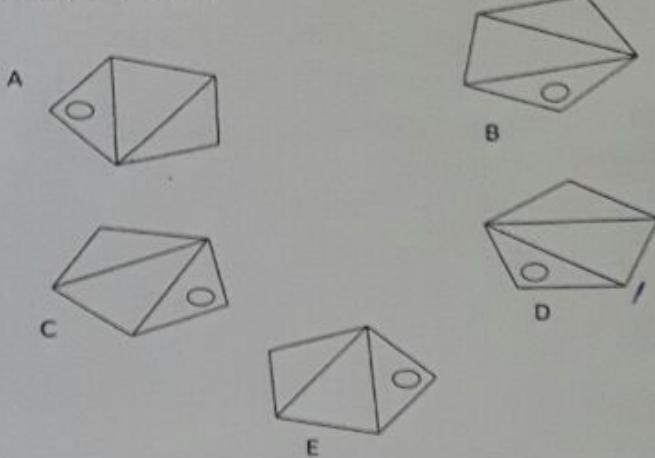
a) 48456 b) 62543 c) 54678 d) 65271 e) 69237

19. A Z B Y D W G T ??

Which two letters come next?

a) LQ b) KP c) KR d) LP e) JQ

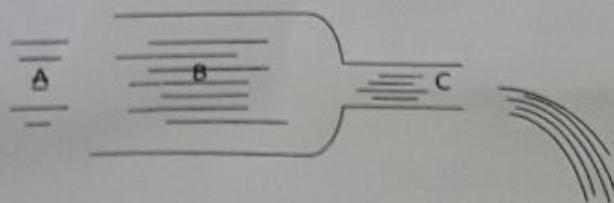
20. Which is the odd one out?



21. If 4 apples and 6 bananas cost £1.56 and 9 apples and 7 bananas cost £2.60, what is the cost of one apple?

a) 0.15 b) 0.1 c) 0.18 d) 0.12 e) 0.14

22.

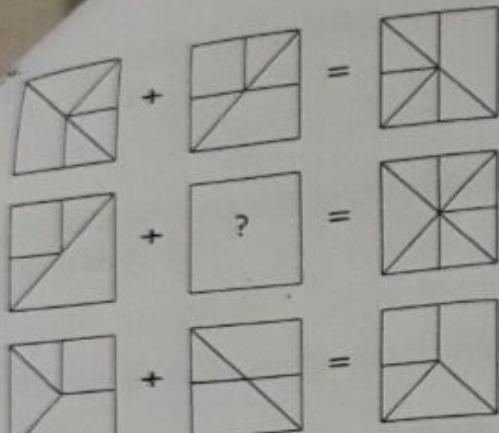


A large volume of water is flowing through a pipe which narrows at the outlet. At which point, will the water flow fastest?

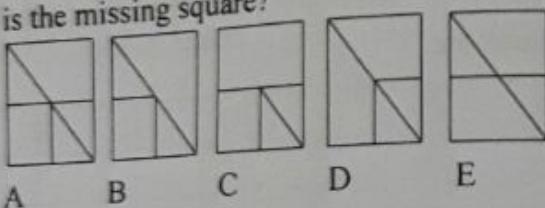
a) A b) B c) C d) Same at every position

23. What day comes three days after the day which comes two days after the day which comes immediately after the day which comes two days after Monday?

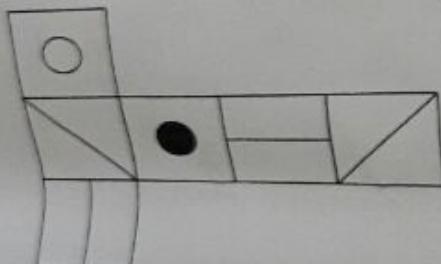
a) Monday b) Tuesday c) Friday d) Sunday



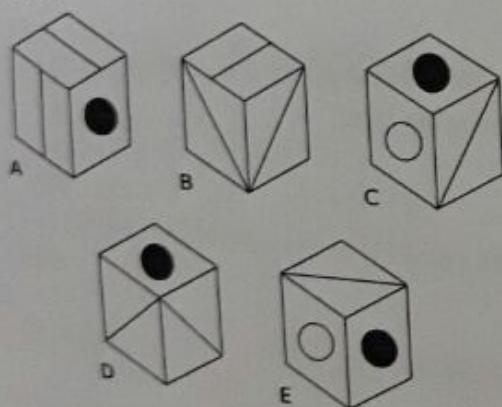
Which is the missing square?



25.



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

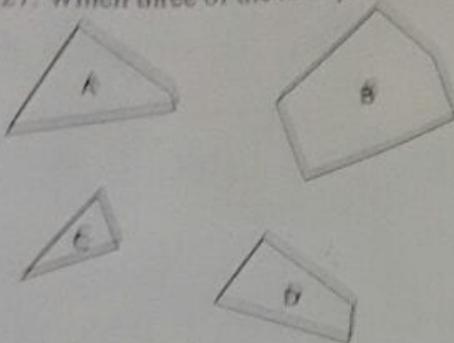


26. What number should replace the question mark?
 10, 10, 9, 7, 7, ?, 4, 4, 3, 1

- a) 5
- b) 6
- c) 3
- d) 2
- e) 7

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27. Which three of the four pieces below can be fitted together to form a perfect square?



a) BCD b) ABC c) ACD d) ABD

28. Look at the following two sets of numbers.

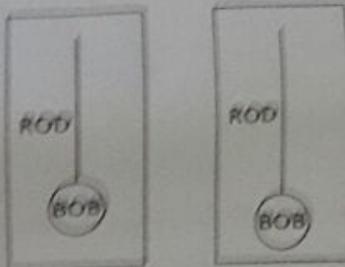
329 : 15

746 : 34

Which numbers below have the same relationship to each other as the two sets of numbers above?

a) 287 : 22 b) 698 : 62 c) 942 : 68 d) 382 : 12 e) 749 : 35

29.



Which of the following factors is most likely to determine that the pendulums on the two clocks will swing back and forth at exactly the same rate?

- the size of the pendulum arc
- the length of the rod or string
- the weight of the bob
- the synchronicity of the timekeeping of the two clocks

30. Which number should come next in this series?

25, 24, 22, 19, 15

A. 4 B. 5 C. 10 D. 14

31. Which number should come next in this series?

3,5,8,13,21,

A. 4 B. 21 C. 31 D. 34

32. At the end of a party 10 people shake hands with each other. How many handshakes will there be in total?

A. 100 B. 20 C. 45 D. 50 E. 90

33. The day before the day before yesterday is three days after Saturday. What day is it today?

A. Monday B. Tuesday C. Wednesday D. Thursday E. Friday

34. What is the missing letter?

E	C	O
B	A	B
G	B	N
D	B	?

A. M B. R C. H D. F

35. If you have a cube which is 5m x 5m x 5m, what is the cubic metres this container would hold?

A. 25 B. 125 C. 5 D. 15

36. The following series of numbers contains one number that does not fit the pattern set by the others. What number does not fit? 3, 5, 7, 11, 14, 17

A. 5 B. 7 C. 11 D. 14

37. "Boat is to water" therefore "Plane is to ____"

- Fly
- Sky
- Float
- Air

38. I'm a male. If Albert's son is my son's father, what is the relationship between Albert and me?

A. Brother B. Uncle C. Father D. Sister

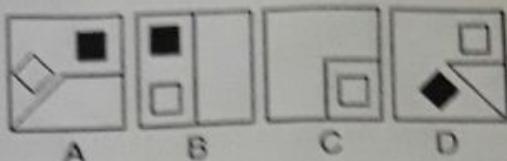
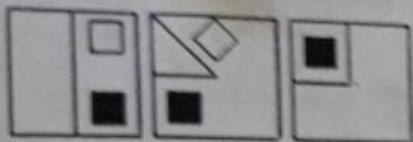
39. Which alpha-numeric is the odd one out?

9D 8F 3E 6C

A) 9D B) 8F C) 3E D) 6C

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40. Find the picture that follows logically from the diagrams to the right. Circle the correct answer.



C D

(40X2 Marks)

41. 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	÷	3	×	2	=	6
+		-		×		+
+		-	4	=		
÷		+		-		+
×	3	-		=		
=	4	=	+			
÷		+		=		

(10 Marks)

42. Data _____ is used for a _____ variety of _____, including the _____ of seismic data for oil and _____, exploration, the analysis of new _____ designs, the processing of _____, and the _____ of data from _____ experiments.

Insert the 10 words below into their correct position in the above passage.

analysis, applications, imagery, mineral, processing, product, satellite, scientific, wide

(10 Marks)