

1. $CDI + V + C + X$ is equal to

- A. 506
- B. 401
- C. 406
- D. 516

2. Hindu-Arabic numeral for MCDXVIII is

- A. 1618
- B. 1405
- C. 1418
- D. 1481

3. The first basic Roman numeral is

- A. O
- B. I
- C. V
- D. X

4. $(-25) - (-42) - (-27)$ $(-42) (-25) + (-22)$. The box contains ($>$, $<$ or $=$), then which sign is correct in box

- A. $<$
- B. $>$
- C. $=$
- D. $\leq$

5. Associative property is used between

- A. Two number
- B. Three numbers
- C. Four numbers
- D. Ten numbers

6. Product of two integers is - 48. If one of the integers is -6 then the other is

- A. +1
- B. +288
- C. 0
- D. +8

7. If $a = 5$, then the solution to the equation $a \times 8 = \dots$

- A. 13
- B. 35
- C. 40
- D. 48

8. The two numbers which have only 1 as their common factor are called

- A. Coprimes
- B. Twin primes
- C. Composite
- D. Even numbers

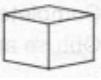
9. Which of the following statements is false?

- A. A line segment has two end points
- B. A line has no end points
- C. A ray has only one end point
- D. A line is same as ray

10. Each equal part of the circle is called

- A. Semicircle
- B. Major circle
- C. Minor circle
- D. All of these

11. Which of the following figure has six faces?

- A. 
- B. 
- C. 
- D. 

12. A quadrilateral is a rhombus but not a square if

- A. Its diagonals do not bisect each other
- B. Its diagonals are not perpendicular
- C. Opposite angles are not equal
- D. The length of diagonals are not equal

13. Which of the following statement is false?

- A. Using protractor, angle of any measure between 0° and 180° can be drawn
- B. A line has two end points
- C. An angle whose measure is greater than 90° is an obtuse angle
- D. Two coinciding rays with a common end point form an angle of measure 0°

14. If $\frac{5}{7} = \frac{x}{35} = \frac{y}{49}$, then the values of x and y are respective ly

- A. 25, 35
- B. 35, 25

- C. 15, 35
- D. 35, 15

15. Which of the following statements is true?

- A. Fractions with same numerator are called like fractions.
- B. Fractions with same denominator are called unlike fractions.

Difference of two like fractions

$$= \frac{\text{Difference of numerators}}{\text{Common denominator}}$$

- C.

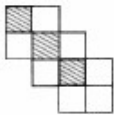
D. A fraction with numerator greater than or equal to the denominator is called proper fraction

16. Which number should come in place of question mark

$$\frac{1}{2} + \frac{2}{7} + \frac{?}{7} = 1\frac{3}{7}$$

- A. 1
- B. 2
- C. 3
- D. 4

17. In which figure does the shaded part represents 0.3?



A.



B.



C.



D.

18. Samson travelled 5 km 52 m by bus, 2 km 265 m by car and the rest 1 km 30 m he walked. Total distance travelled by him is

- A. 8.347 km
- B. 8.000 km
- C. 8.925 km
- D. 9.000 km

19. Prem went to a craft fair where he spent a total of Rs.16.00. He spent Rs. 6.00 on admission and went to 8 tables. He spent the same amount of money (m) at each table. The following expression can be used to find how much money he spent at each table.

$$16 = 6 + 8m$$

How much money did Prem spend at each table?

- A. Rs. 0.50
- B. Rs. 0.80
- C. Rs. 1.25
- D. Rs. 2.00

20. The colours of refrigerators preferred by people living in a locality are shown in the following pictograph?

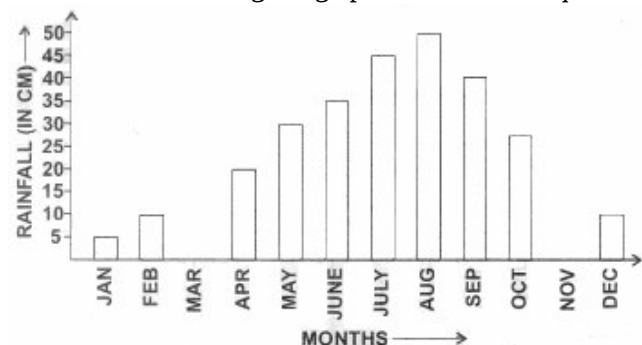
Colour of refrigerator	No. of people
Blue	   
Green	  
Red	     
White	 

 = 10 People,  = 5 People

How many people liked Red colour refrigerator ?

- A. 40
- B. 30
- C. 20
- D. 55

21. Read the following bar-graph and answer the questions below.



Which months do not have any rain?

- A. January and March
- B. January and November
- C. November and December
- D. March and November

22. This table and pictograph which show the number of school teachers in some cities.

Name of City	No. of School Teachers
Hyderabad	4200
Delhi	2400
Chennai	3000

Name of City	No. of School Teachers
Hyderabad	      
Chennai	    

Which of the following is the correct representation of the number of school teachers in Delhi?

- A.    
- B.      
- C.      
- D.   

23. The area of square is numerically equal to the perimeter of the square, then the side of square is

- A. 2
- B. 3
- C. 4
- D. 5

24. The perimeter of a rectangle is twice the of length and breadth of the rectangle.

- A. Difference
- B. Sum
- C. Product
- D. Division

25. The number of paving stones, each measuring 10 dm by 9 dm are required to pave a rectangular veranda 60 metres by 6 metres is

- A. 360
- B. 400
- C. 350
- D. 300

26. If six times a number is 48, then the number is

- A. - 8
- B. 1
- C. 48
- D. 8

27. An algebraic expression $11 - y$ can be written in statement as

- A. 11 less than y
- B. y less than 11
- C. y more than 11
- D. y divided by 11

28. The algebraic expression for the statement 'x multiplied by itself' is

- A. x
- B. x^3
- C. x^2
- D. 2x

A sum of Rs.1300 is divided between A, B, C and D such that

29. $\frac{\text{A's share}}{\text{B's share}} = \frac{\text{B's share}}{\text{C's share}} = \frac{\text{C's share}}{\text{D's share}} = \frac{2}{3}$. Then, A's share is

- A. Rs.140
- B. Rs.160
- C. Rs.240
- D. Rs.320

30. The monthly salary of A, B C is in the proportion of 2: 3: 5. If C's monthly salary is Rs.1200 more than that of A, then B's annual salary is

- A. Rs.14400
- B. Rs. 24000
- C. Rs. 1200
- D. Rs. 2000

31. A litre of kerosene oil weighs 0.819 kg and 10 litres of petrol weigh 7.02 kg, then the ratio of the weight of kerosene oil and petrol per litre is

- A. 7: 5
- B. 5: 7
- C. 6: 7
- D. 7: 6

32. To draw a pair of parallel lines we use

- A. Compass
- B. Divider
- C. Scale set squares
- D. Any of these

33. The angles is to be bisected to obtain an angle of 90° is

- A. 60° and 45°
- B. 60° and 120°
- C. 120° and 180°
- D. 30° and 60°

34. Analyse the following figure and answer the questions 18 and 19.



Find the number of pentagons.

- A. 2
- B. 3
- C. 4
- D. 6

35. Complete the pattern



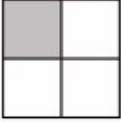
- A.
- B.
- C.
- D.

36. After a deduction of 5% from a certain sum and then 10% from the remainder, a sum of Rs. 171 is left.

The original sum was

- A. Rs. 100
- B. Rs. 300
- C. Rs. 250
- D. Rs. 200

37. The choice in which the shaded part represents one third of its whole is

- A. 
- B. 
- C. 
- D. 

38. Different positions of a dice shown here. Which of the following is not the right position of dice.

- A. 
- B. 
- C. 
- D. 

39. Between 20 & 28 students of a class went on a field trip. They tried to organize themselves into groups of 2, 3, 4, or 5, but they found that there were always students left over. How many students were there in the class ?

- A. 21
- B. 23
- C. 25
- D. 27

40. Which of the following figures given below appears to have exactly one pair of parallel sides and two 90° angles ?

- A. 

- B. 
- C. 
- D. 

41. Ashish went to the Men's shop to buy a shirt. He saw this advertisement and bought 6 identical shirts. The regular price of one shirt was Rs. 22.50. What was the total amount he paid for the 6 shirts, not including tax?



- A. Rs. 111.25
- B. Rs. 122.50
- C. Rs. 101.25
- D. Rs. 145.00

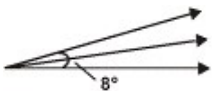
42. Ms. Neha needs to replace the batteries in 20 calculators. Each calculator uses 4 batteries. The batteries are sold in packages of 16. How many packages of batteries does Ms. Neha need to buy?

- A. 64
- B. 4
- C. 80
- D. 5

43. The letters S and T stand for numbers. If $S - 100 = T - 100$, which statement is true?

- A. $S = T$
- B. $S > T$
- C. $S = T + 100$
- D. $S > T + 100$

44. Sneha bisects an angle to form two new angles. If the original angle had a measure of 8° , what is the measure of each new angle?



- A. 8°
- B. 20°
- C. 4°
- D. 16°

45. Find out from the options which is the mirror-image of the given word, if the mirror is placed vertically right.

CONTENTS

- A. STNETNOC
- B. STNĚTNOČ
- C. STNETNOC
- D. CONTENTS

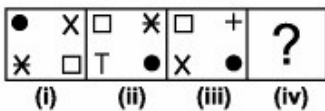
46. Complete the number series given below.

1, 4, 2, 8, 6, 24, 22, 88, (?).

- A. 86
- B. 352
- C. 90
- D. 154

47. Figures (i), (ii), (iii) and (iv) constitute the problem set. There is a definite relationship between figures (i) and (ii). Establish a similar relationship between figures (iii) and (iv) by selecting a suitable figure from the options that would replace (?) in figure (iv).

Problem set



- A.

●	+
T	□
- B.

●	C
X	□
- C.

●	X
+	□
- D.

●	X
C	□

48. Which of the following represents the fraction of Figure X that is shaded?

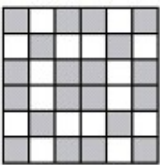


Figure X

- A. $\frac{1}{2}$
- B. $\frac{2}{3}$
- C. $\frac{4}{5}$
- D. $\frac{5}{9}$

49. At the store, Mini paid Rs.8.74 for seven oranges. At this rate, how much will she pay for 24 oranges?

- A. Rs.32.84
- B. Rs.29.96
- C. Rs.19.86
- D. Rs.24.38

50. Which of the following fractions is smaller than $\frac{5}{9}$?

- A. $\frac{1}{4}$
- B. $\frac{11}{13}$
- C. $\frac{5}{7}$
- D. $\frac{6}{7}$