Concept

1. Ms. Neha needs to replace the batteries in 20 calculators. Each calculator uses 5 batteries. The batteries are sold in package of 25. How many package of batteries does Ms.Neha need to buy?
   (A) 64   (B) 4   (C) 80   (D) 5

2. Coach Kabir needs to buy 20 Tshirts for the girl's basketball team. The list below shows the prices of Tshirts at 2 stores.
   (i) Store X : One Tshirt costs Rs 150
   (ii) Store Y : A package of six Tshirts costs Rs 950. What is the amount of money coach Kabir will spend in all if he buys 12 Tshirts from store Y and 8 Tshirts from store X ?
   (A) Rs 4050 (B) Rs1450 (C) Rs 2600 (D) Rs 3100

3. 15 men can finish a piece of work in 40 days. The number of days in which the same work can be done by 20 men is _____.
   (A) 20   (B) 30   (C) 48   (D) 15

4. In a class room there are 3x rows of benches. If each row has 4xy benches and each bench can accommodate x students, determine the number of students in the room if it is full upto its capacity.
   (A) 6x 3y   (B) 12x 2y   (C) 12x 3y   (D) 16x 4y

5. Which of the following numbers is equal to 1 billion
   (A) 10 lakh   (B) 1 crore   (C) 10 crore   (D) 100 crores

6. Which of the following is the smallest counting number ?
   (A) 0   (B) 1   (C) 10   (D) None of these

7. Rohit rolled 3 fair number cubes, and the numbers shown below came out on top. How many 3digit numbers can be made using these digits if no digit is repeated ?

4	5	6

   (A) 6   (B) 9   (C) 12   (D) 15

Application

8. Kartik is k years old. Rehaan's age, r, is 6 less than 2 times Kartik's age. Which of the following equations best represents Rehaan's age?
   (A) r = (6 – 2)k (B) k = 2r – 6 (C) r = 2k – 6 (D) k = (6 – 2)r

9. Find the value of −26 − 20 + 33 −(−33) + 24 + 21 −(−25) −26 − 14.
   (A) 60   (B) 56   (C) 50   (D) 24

10. Abhay found the area of a square to be 36 square metres. Which of the Following could be used to find the length (l) of one edge of the square?
    (A) l 2 = 6 × 12 (B) l 2 = 12 ¸ 6 (C) l 2 = 6 × 6 (D) l 2 = 6 × 2

11. The roman numeral for 1679 is _____
    (A) CCCXXMIX (B) MDCLXXIX (C) MDCCXIX (D) MMMDCCVI

12. Sneha is counting by 3's. If she starts counting at −30, what is the sum of two missing numbers? −30, −27, −24, − 21, __? _, _? __, −12
    (A) −33   (B) −3   (C) 43   (D) 33

13. Niharika earns Rs 14579 each month by selling books. Which of the following is the best estimate in nearest thousands, she earns in 2 months ?
    (A) Rs 30,000 (B) Rs 20,000 (C) Rs 35,000 (D) Rs 30,800

HOTS

14. The sum of two integers is -56. If one of them is -19. Find the other.
    (A) -37   (B) 37   (C) 40   (D) -40

15. Add -78 to the difference of -56 and -89.
    (A) -40   (B) -45   (C) 40   (D) 45

16. Aryan travelled 5 km 52 m by bus, 8 km 165 m by car and the rest 480 metres he walked. How much distance did he travel in all ?
    (A) 16.397 km   (B) 16.697 km   (C) 13.976 km   (D) 13.697 km

17. There were 180 members in the club last year. The membership decreased by 20% this year. How many members decreased this year ?
    (A) 12   (B) 25   (C) 36   (D) 20

18. 9020814 is divisble by………
    (A) 11   (B) 3   (C) 4   (D) 9

19. Which is the following is the smallest counting number ?
    (A) 0   (B) 1   (C) 10   (D) None of these

20. A bus travels 126 km in 3 hours and train travels 315 km in 5 hours, then the ratio of their respective speeds is _____.
    (A) 2 : 5   (B) 2 : 3   (C) 5 : 2   (D) 25 : 6