

Subject: Mathematics

Topic:

No. of Questions: 30

Duration:

Maximum Marks:

1. In 75,190, in which place is the 7?

(A) Ten Thousands

(B) Units

(C) Thousands

(D) Tens

Sol. (A)

Ten Thousands	Thousands	Hundreds	Tens	Units
7	5	1	9	0

The 7 is in the ten-thousands place.

2. How would you write 19 as a Roman numeral?

(A) XX

(B) XIX

(C) XXI

(D) IXX

Sol. (B)

Write the number in expanded form and convert each term to Roman numerals:

$$10 + 9 = 19$$

X IX

XIX represents 19.

3. In 489, what digit is in the tens place?

(A) 4

(B) 8

(C) 9

(D) 0

Sol (B)

Hundreds	Tens	Units
4	8	9

The 8 is in tens place.

4. What number does this Roman numeral represent? XXXVII

- (A) 39
- (B) 27
- (C) 37
- (D) 45

Sol.

(C)
XXX VII
30 + (5 + 2) = 37
XXXVII represents 37.

5. What number does this Roman numeral represent? LXXI

- (A) 71
- (B) 121
- (C) 69
- (D) 61

Sol.

(A)
LXX I
(50 + 20) + 1 = 71
LXXI represents 71.

6. Medicine is packed in boxes, each weighing 5 kg 200g. How many such boxes can be loaded in a van which cannot carry beyond 260 kg?

- (A) 100 boxes
- (B) 50 boxes
- (C) 150 boxes
- (D) None of these

Sol.

(B)
 $60 \text{ kg} = 260 \times 1000 \text{ g} = 260000 \text{ g}$
 $5 \text{ kg } 200 \text{ g} = 5 \times 1000 + 200 = 5200 \text{ g}$
No. of boxes loaded = $260000/5200 = 50$ boxes

7. A student multiplied 1234 by 32 instead of multiplying by 23. By how much was his answer greater than the correct answer?

- (A) 11106

- (B) 11110
- (C) 11108
- (D) None of these

Sol. (A)
 $234 \times 32 - 1234 \times 23 = 1234 \times (32 - 23) = 1234 \times 9 = 11106$

8. A merchant had Rs. 88,592 with her. She placed an order for purchasing 50 radio sets at Rs 1100 each. How much money will remain with her after the purchase?

- (A) 30,500
- (B) 33,592
- (C) 30,592
- (D) 33,600

Sol. (B)
Money remained = Rs. 88,592 - Rs. (50 x 1100) = Rs. (88,592 - 55,000) = Rs. 33,592

9. What is the product of place value and face value of 8 in '12867'?

- (A) 80
- (B) 8
- (C) 800
- (D) 6400

Sol. (D)

10. Sunny is a famous cricket player. He has so far scored 7280 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need?

- (A) 2700
- (B) 2780
- (C) 2620
- (D) 2720

Sol. (D)
 $10000 - 7280 = 2720$

11. In an election, the successful candidate registered 6,72,500 votes and his nearest rival secured 4,78,500 votes. By what margin did the successful candidate win the election?

- (A) 1,90,000
- (B) 1,95,000
- (C) 1,94,000
- (D) 1,96,400

Sol. (C)

$$6,72,500 - 4,78,500 = 1,94,000$$

12. The distance between the school and the house of a student's house is 1 km 875 m. Every day she walks both ways. Find the total distance covered by her in 15 days.

- (A) 200 m
- (B) 300 m
- (C) 350 m
- (D) 250 m

Sol. (D)

Distance covered per day = $2 \times 1.875 = 3.75$ km

Therefore, the total distance covered in 15 days = $15 \times 3.75 = 56.25 = 56\text{km } 250\text{m}$

13. The number of sheets of paper available for making notebooks is 25,000. Each sheet makes 12 pages of a notebook. Each notebook contains 300 pages. How many notebooks can be made from the paper available?

- (A) 1000
- (B) 2000
- (C) 3000
- (D) 4000

Sol. (A)

$(25000 \times 12) / 300 = 1000$

14. In Mumbai, the number of bicycles sold in the year 2011-2012 was 7,43,000. In the year 2012-2013, the number of bicycles sold was 8,00,100. In which year were more bicycles sold? And how many more?

- (A) 57,200
- (B) 58,100
- (C) 57,100
- (D) 57,300

Sol. (C)

2012-2013, by $8,00,100 - 7,43,000 = 57,100$

15. The town newspaper is published every day. One copy has 12 pages. Everyday 12,000 copies are printed. How many total pages are printed every day?

- (A) 1,45,000
- (B) 1,55,000
- (C) 1,60,000
- (D) 1,44,000

Sol. (D)

$12,000 \times 12 = 1,44,000$

16. What is the predecessor of 3456?

- (A) 3455
- (B) 3454
- (C) 3453
- (D) 5452

Sol. (A)
 $3456 - 1 = 3455$

17. What is the successor of 678?

- (A) 677
- (B) 679
- (C) 680
- (D) 681

Sol. (B)
 $678 + 1 = 679$

18. A vendor supplies 32 liters of milk to a hotel in the morning and 68 litres of milk in the evening. If the milk costs Rs 15 per liter, how much money is due to the vendor per day?

- (A) 1500
- (B) 1600
- (C) 1700
- (D) 1800

Sol. (A)
 $\text{Rs } 15 (32 + 68) = \text{Rs } 15 * 100 = \text{Rs } 1500$

19. 540 ___ 504

- (A) >
- (B) <
- (C) =
- (D) None of these

Sol. (A)

20. Division by ___ is not defined.

- (A) 1
- (B) 2
- (C) 3
- (D) 0

Sol. (D)

21. ____ is the factor of 50.

- (A) 10
- (B) 3
- (C) 6
- (D) 7

Sol. (A)
 $50 = 5 \times 10$.

22. Which of them is a prime number?

- (A) 27
- (B) 21
- (C) 23
- (D) 25

Sol. (C)

23. Which of them is a composite number?

- (A) 23
- (B) 29
- (C) 31
- (D) 33

Sol. (D)

24. ____ is a factor of every number.

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Sol. (A)
As 1 multiplied by any number gives the number itself.

25. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

- (A) 12250 cm
- (B) 12260 cm
- (C) 12240 cm

(D) 12270 cm
Sol. (C)
LCM of {80, 85, 90} = 12240 cm

26. Two numbers having only ____ as a common factor are called co-prime numbers.

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Sol. (A)

27. If two given numbers are divisible by a number, then their _____ are also divisible by that number.

- (A) Sum
- (B) Difference
- (C) None of the above
- (D) Sum and difference

Sol. (D)
Sum and difference

28. The number of multiples of a given number is _____.

- (A) 0 Only 1
- (B) Infinite
- (C) Depends on the number

Sol. Infinite

29. A number for which sum of all its factors is equal to twice the number is called a ____ number.

- (A) Prime
- (B) Composite,
- (C) Perfect
- (D) Real

Sol. Perfect

30. Third multiple of 6 is ____.

- (A) 12
- (B) 18

Sol. (C) 24
(D) 30
(B)
 $6 \times 3 = 18.$

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