



SUB – MATHEMATICS

CLASS – VI

Natural numbers and whole numbers

Section A – 1 mark each

- Which is the Roman numeral of 49?
a) XCVII b) XLIX c) LXXIX d) XCI
- What is the smallest whole number?
a) 0 b) 1 c) 9 d) none of these .
- Which one is the smallest composite number ?
a) 3 b) 2 c) 5 d) 4
- The predecessor of the predecessor of the smallest 6-digit number is
a) 99,999 b) 99,998 c) 99,997 d) 1,00,000
- _____ + XLVI = LXX.
a) XXVI b) XIV c) XIV d) XXVI
- The Roman numerical representing the least three digit number is
a) X b) M c) D d) C
- The predecessor of the smallest five digit number is:
a) 9997 b) 9999 c) 9998 d) 10001
- $947 \times () = 947$.
a) 0 b) 947 c) 1 d) 2.
- Which is the Roman numeral of 49?
a) XCVII b) XLIX c) LXXIX d) XCI
- What is the smallest whole number?
a) 0 b) 1 c) 9 d) no .
- Choose the Roman numeral for $90 + 8$
a) LXVII b) XCVIII c) LXXXVIII d) LXVIII
- The face value of 8 in the numeral 9823745 is _____
a) 800000 b) 8 c) 80000 d) 8000

Section B – 2 marks each

- Convert the following into Roman Numerals. a) 53 b) 98
- Arrange LVII, XC, XV, LXIV, LXXI, XXIX in descending order.
- Write the four immediate predecessor of 5502002
- Write the Roman numerals of the 78 & 93.

Section C – 3 marks

- Using distributive property, solve : $322 \times 25 \times 6 - 322 \times 10 \times 15$
- Find the smallest number which when divide by 25, 40, 60 leaves remainder 7 in each case.
- Applying distributive property. Find the value of $635 \times 165 - 635 \times 65 - 635$
- Using distributive property, solve $223 \times 25 \times 6 - 223 \times 10 \times 15$
- Find the least number that should be added to 2000 so that 45 divides the sum exactly.

Section D – 4 marks

- $750 \times 17 + 750 \times 38 + 27 \times 750 + 18 \times 750$
- Find the least number that should be added to 2000 so that 45 divide the sum exactly.

3. In a school, the monthly fee of a child is Rs 497. If there are 1005 students in a school, find the total fee
4. a) Find the value distributive property : $125 \times 8 \times 883 + 117 \times 25 \times 40$.
b) Divide and check : $2781 \div 35$.
5. Rohan buys 12 computer and printers of the cost of one computer and printer is Rs 56,233 and Rs 7,867 respectively. Find the total cost incurred by Rohan. (Use the distributive property of multiplication)
6. Find the value by using distributive property: $688 \times 10 \times 437 - 6880 \times 337$.
7. Cost of 5 pizzas is Rs 725 and 6 pastries is 54. If I want to purchase 3 pizzas & 12 pastries, how much should I pay ?
8. Find two numbers nearest to 4000 which are divisible by 35.

Factors and multiples

Section A – (Each question carry 1 mark)

1. What is called which have more than 2 factors?
A) Composite number b) prime number c) even number d) odd number
2. Which of the following numbers is co-prime?
a) 35, 40 b) 26, 39 c) 31, 59 d) 17, 51
3. 789984 is divisible by which of the following number.
a) 5 b) 11 c) 4 d) none of these
4. The smallest odd prime number is:
a) 5 b) 7 c) 9 d) 3
5. Which pairs of numbers has LCM of 150?
a) 10, 15 b) 150, 300 c) 2, 300 d) 15, 50
6. Which of the following is a pair of twin prime between 50 and 70
a) 51, 53 b) 57, 59 c) 59, 61 d) 63, 65
7. The smallest odd composite number is
a) 4 b) 6 c) 2 d) 9
8. Which of the following pairs of numbers is not a twin prime?
a) (3, 5) b) (7, 9) c) (5, 7) d) (11, 13)
9. HCF of two prime number is
a) 2 b) 3 c) 1 d) 4
10. Which is the smallest odd composite number?
a) 5 b) 9 c) 7 d) 4

Section B –(Each question carry 2 marks)

1. HCF of two numbers is 16 and their product is 1120. Find their LCM.
2. Write the greatest 4 digit number and express it as a product of primes.
3. Express the smallest 5-digit number as a product of primes.

Section C – (Each question carry 3 marks)

1. Test the divisibility of the number 13856722 by 4 and 3.
2. The HCF & LCM of two numbers 13 & 1989 respectively. If one number is 117. Find the other number.
3. The HCF of two numbers is 16 and their product is 6400. Find their L.C.M.

4. L.C.M. of two numbers is 1760. The numbers are 160, 352. Find their H.C.F.
5. Find the L.C.M. of 30, 24, 36 & 16 by common division method.
6. By using the test of divisibility, check 2352825 is divisible by 11.
7. Find the greatest number which divides 203 & 434 leaving remainder 5 in each case.
8. Find the HCF of 208, 494, 949 by continued division method.
9. Find the LCM of 198, 135, 108, 54
10. Write the greatest 5- digit number and express it as a product of primes.
11. Find the prime factors of 527. Ans 19 and 31

Section D – 4 marks

1. In a morning walk, three boys step together .Their steps measure 80cm, 90cm. and 85cm respectively
2. What minimum distance should each walk so that all can cover the distance in complete steps?
3. The length, breadth and height of a room are 8.25m., 6.75m. and 4.50m. respectively. Determine the longest tape which can measure the 3 dimensions of the room exactly.
4. Three Haryana Roadways buses stop after 50km,100km, 125 km respectively. if they come together from one place, then after how many km will they stop together?
5. Find the smallest number which divides 203 and 434 leaving the remainder 5 in each case.
6. Find the least number which when divided by 40, 50 and 60 leaves remainder 5 in each case.
7. Four bells rang at interval of 8, 9, 12and 15 minutes respectively. If they rang together at 3 PM. When will they rang together next?
8. The LCM and HCF of two numbers are 180 and 6 respectively. If one of the number is 30, find the other.
9. Arati is helping her father in planting trees around the backyard. Arati plants a tree in every 25 minutes and her father plants a tree in every 15 minutes. If they started planting together after how long will they plant together next ? What value do you depict from the above question ? (any two points).
10. Atul, Ravi and Tarun go for a morning walk. They step off and their steps measure 40 cm, 42 cm and 45 cm respectively. What minimum distance each should walk so that each can cover the same distance in complete steps? How is morning walk useful?