MULTIPLE CHOICE QUESTIONS

1. The difference between the place value and face value of 3 in the numeral 6,530 is:

   (a) 3   (b) 27   (c) 33   (d) 0

2. The greatest whole number is:

   (a) 1 billion   (b) 10 crore   (c) 10 lakh   (d) none of these

3. The largest four-digit number having distinct digits is:

   (a) 9,000   (b) 9,867   (c) 9,768   (d) 9,876

4. The number 14,349 when rounded off to the nearest hundreds is:

   (a) 14,000   (b) 14,300   (c) 15,000   (d) 14,400

5. The equivalent of 44 in Roman numeral is:

   (a) XXXXIV   (b) XLIIII   (c) XLIV   (d) IVIV

6. The smallest natural number which on rounding off to the nearest hundreds gives 400 is:

   (a) 399   (b) 401   (c) 449   (d) 350

7. The sum of place value of all the digits of the number 6,001 is:

   (a) 7   (b) 61   (c) 6,001   (d) 6,000

8. While adding two four-digit numbers the closest estimate will be obtained by rounding each number to the nearest:

   (a) ones   (b) tens   (c) hundreds   (d) thousands

SOLVE MENTALLY

True or False

1. The place value of a digit is independent of whether the number is written in Indian system or International system of numeration.

2. In Roman numerals, the digits do not have any place value.

3. In the Roman numeral system, the symbol VC represents the number 95.

4. In International system of numeration, a number having more number of digits is always greater than the number having less number of digits.

5. Rounding off each number to the nearest tens before performing the required operation gives more accurate estimate than rounding off each number to the nearest hundreds or thousands.

Fill in the Blanks

1. The face value of digit 3 in the number 3,284 is _____.

2. The place value of digit 7 in the number 6,721 is _____.

3. In Roman numerals, X can be subtracted from _____ and _____ only.

4. The estimate of the number 764 when rounded off to nearest hundreds is _____.

5. A number greater than or equal to 500 and less than 1500 on rounding off to nearest thousands gives _____.

Answer in One Word or a Line

1. Which digit in the number 1,234 has the highest face value?

2. Which digit in the number 1,234 has the highest place value?

3. How many kilograms are there in 1 quintal?

4. Which symbol is used to represent 10,000 in the Roman numeral?

5. What number is obtained on rounding off 6,292 to the nearest hundreds?

LET'S EVALUATE

1. Write the numerals for each of the following:
   (a) Sixteen crore forty lakh ten thousand two hundred forty-nine
   (b) Seven crore two lakh eighty-seven

2. Write number names for (a) 7,23,56,708   (b) 27,57,002

3. Write each in expanded form: (a) 5,35,23,981   (b) 34,49,28,876

4. Find the difference between the place values of two 7s in 78,65,49,756.

5. How many five-digit numbers are there in all?

6. Arrange the following numbers in ascending as well as descending order:
   4,75,63,892; 56,45,389; 3,27,896; 5,64,585 and 45,87,692.

7. The construction cost of 18 duplex houses constructed by a builder is ₹ 4,56,24,564. What is the cost of one such duplex house?

8. A student multiplied 7,236 by 75 instead of multiplying by 57. By how much was his answer greater than the correct answer?

9. A vessel has 5 L, 500 mL of ice cream. How many ice cream cups, each of 50 mL capacity, can be filled?

10. Express each of the following as a Hindu-Arabic numeral:
    (a) XXXII   (b) XCV   (c) DCCLXIV   (d) CCXX
    (e) MVI   (f) LXXXIV

11. Estimate and compare with the actual sum: (a) 760 + 683   (b) 9,864 + 2,349

12. Estimate the product of 367 × 540 by rounding off each number to its nearest hundreds.

13. Find the estimated quotient for 473 ÷ 19.

14. Express the following numbers as Roman numerals:
    (a) 446   (b) 341   (c) 66   (d) 227
    (e) 49   (f) 999

MULTIPLE CHOICE QUESTIONS

1. Which of the following numbers is a perfect number?
   (a) 2   (b) 4   (c) 6   (d) 8

2. Which of the following numbers is divisible by 4?
   (a) 25,13,784   (b) 18,20,741   (c) 70,12,345   (d) 68,54,321

3. What is the least value of * so that the number 9274*5 is divisible by 9?
   (a) 0   (b) 3   (c) 4   (d) 9

4. The number divisible by 11 is:
   (a) 11,11,111   (b) 22,222   (c) 3,33,33,333   (d) 44,44,444

5. If 25*215 is divisible by 3, then * can take the value:
   (a) 1   (b) 3   (c) 4   (d) 5

6. Seive of Eratosthenes is a method to find:
   (a) perfect numbers   (b) prime numbers   (c) twin primes   (d) co-primes

SOLVE MENTALLY

True or False

1. A number divisible by 3 is also divisible by 6.
2. The numbers 8 and 9 are factors of 72.
3. Two consecutive prime numbers which are odd are called twin primes.
4. There is only one composite number between two primes.
5. Two numbers forming a twin prime are consecutive odd numbers.
6. There is only one composite number between twin primes.
7. Two co-prime numbers are always prime.

Fill in the Blanks

1. A number is called _____ if the sum of its factors, except itself, is greater than the number.

2. The number 17 and _____ forms a pair of twin primes.

3. There are _____ pairs of twin primes in the first 100 natural numbers.

4. A number is divisible by _____ if the number formed by its last two digits is divisible by it.

5. Two prime numbers are called _____ primes of *n* if their average is *n*.

Answer in One Word or a Line

1. What are the first three multiples of 7?

2. What is the smallest factor of 64?

3. Which is the smallest odd prime number?

4. Are two co-prime numbers always prime? Is the converse true?

5. What is the LCM of two co-prime numbers *a* and *b*?

6. Which is greater, HCF or LCM of two numbers? Why?

LET'S EVALUATE

1. Express each of the following numbers as the sum of three odd primes in two different ways:

   (a) 43　　　　　(b) 61　　　　　(c) 83

2. Which of the following pairs of numbers are co-prime?

   (a) 16 and 23　　　(b) 27 and 36　　　(c) 25 and 64

3. Write the greatest 3-digit number and express it in terms of its prime factors.

4. Is the sum of any two prime numbers always even? Justify your answer with the help of examples.

5. Using divisibility tests, determine which of the following numbers are divisible by 2, 3, 4, 5, 6, 8, 9, 10 and 11 (write Yes or No).

Number	Divisible by								
	2	3	4	5	6	8	9	10	11
5,444									
67,859									
5,64,382									
9,00,001									
8,01,020									
8,43,264									

6. The students of a class can be divided into groups of 2, 3, 5 or 6. What is the least number of children this class can have?

7. Find the smallest 6-digit number, which is divisible by 12, 15 and 30.

THINKING SKI