WORKSHEET 1

Knowing Our Numbers

Multiple Choice Questions

1. The smallest five-digit number having distinct digits is:
   (a) 10,000   (b) 54,321   (c) 10,234   (d) 01,234
2. The equivalent of 69 in Roman numeral is:
   (a) LXIX   (b) LXVIIII   (c) IXXXC   (d) LXXI
3. In the number 7,125, the place value of the underlined digit is:
   (a) 2   (b) 20   (c) 22   (d) 25
4. The largest four-digit number is:
   (a) 1,000   (b) 9,988   (c) 9,876   (d) 9,999
5. The number 7,684 rounded off to the nearest hundred is:
   (a) 8,000   (b) 7,000   (c) 7,700   (d) 7,600

Mental Maths

6. The digit having greatest face value in the numeral 3,879 is _____.
7. The predecessor of _____ is not a whole number.
8. The equivalent of Roman numeral CD in Hindu-Arabic numeral is _____.
9. The sum of predecessor and successor of natural numbers is always even. (True/False)
10. The standard unit of length is kilometre. (True/False)
11. How many five-digit numbers are there in all?
12. Which is greater—3,48,19,212 or 3,48,19,121?
13. List all the numbers which when rounded off to the nearest hundred give 6,400.
14. Arrange the following numbers in ascending order: 47,61,235; 1,74,61,245; 9,99,998.
15. Write the number name of 273172050 according to the Indian system of numeration.

Questions

16. The cost of 1 laptop is ₹ 28,000. What is the cost of 12 such laptops?
17. To stitch a shirt, 2 m 10 cm cloth is needed. How many shirts can be stitched from 18 m cloth?
18. Estimate the product 366 × 714 using general rule.
19. Find the estimated quotient for 640 ÷ 39.
20. Find the sum of 12,464 and 4,003.
21. Insert commas and write the number name of 7000000000 according to the International system of numeration.
22. The difference between two numbers is 74,76,538. If the smaller number is 24,27,141, find the greater number.
23. If 7,145 screws can be packed in 1 carton, how many screws can be packed in 312 such cartons?
24. The cost of 23 flats in Engineer's Co-operative Group Housing Society is ₹ 6,22,24,200. Find the cost of each flat.

25. Match the following.

    (a) 332   (i) CCXLVIII

    (b) 248   (ii) CDLXXV

    (c) 475   (iii) CDXXXVIII

    (d) 438   (iv) CCCXXXII

26. Ria multiplied 7,666 by 64 instead of multiplying by 46. By how much was her answer more than the actual answer?

27. A large tanker of capacity 14 kL 600 L is full of petrol. How many petrol pumps be supplied each with a capacity of 700 L of petrol?

28. The cost of a flat is ₹ 16,35,980 in a colony. A property dealer decided to purchase 17 such flats. What will be the total expenditure?

WORKSHEET 2

Whole Numbers

Multiple Choice Questions

1. If zero is divided by any non-zero whole number the result is always:
   (a) 1   (b) 0   (c) a   (d) not defined
2. For any three whole numbers x, y and z, the property $(x \times y) \times z = x \times (y \times z)$ is known as:
   (a) commutative   (b) associative   (c) closure   (d) distributive
3. The product of first ten whole numbers is:
   (a) 0   (b) 1   (c) 3,62,880   (d) 36,28,800
4. If x is divided by y then y is called the:
   (a) dividend   (b) divisor   (c) quotient   (d) remainder
5. In order to add 3 to 7 on a number line, we move:
   (a) 7 units to the left of 3   (b) 3 units to the left of 7
   (c) 4 units to the left of 3   (d) 3 units to the right of 7

Mental Maths

6. The whole numbers which remain same on multiplying as many times by itself are _____ and _____.
7. The product of five odd numbers and one even number is an _____ number.
8. The number _____ is an additive identity for whole numbers.
9. There does not exist smallest whole number. (True/False)
10. Product of three whole numbers is same irrespective of their grouping. (True/False)
11. Find the immediate predecessor of 3,45,000.
12. How many whole numbers are there between 53 and 79? How many of these are odd?
13. What is the difference between the successors of 3,48,000 and 2,48,000.
14. Is division of whole numbers commutative? Explain.
15. Evaluate 37,112 ÷ 1.

Questions

16. Determine the sum of $33 + 48 + 52 + 67$ by suitable rearrangement.
17. Which whole numbers satisfies $a \div a = 1$?
18. A school purchased 32 smart boards for ₹ 51,310 each. Find the cost of all the boards.
19. A dozen oranges cost ₹ 27. How many dozens can be purchased for ₹ 1,539.
20. Can the product of two distinct whole numbers be unity? Can it be zero?
21. Find the product $8 \times 123 \times 25$ using suitable rearrangement.
22. Find the product of the largest 4-digit number and the largest 5-digit number?
23. Divide 624 by 29 and verify the result by division algorithm.
24. A car tank is filled with 32 L of petrol. A week later 17 more litres of petrol was filled. If the petrol costs ₹ 70 per litre, how much was spend on petrol?
25. Replace each * by the correct digit in the given subtraction problem.

$$
\begin{array}{r}
3\ \ 8\ \ 4\ \ 0\ \ 1\ \ 0\ \ 5 \\
-\quad *\ \ *\ \ 3\ \ 4\ \ 0\ \ 5 \\
\hline
3\ \ 7\ \ 1\ \ 6\ \ *\ \ *\ \ * \\
\hline
\end{array}
$$

WORKSHEET 3

Playing with Numbers

Multiple Choice Questions

1. Which of the following is not a factor of 6?
   (a) 1   (b) 2   (c) 3   (d) 4

2. Which of the following is a composite number?
   (a) 1   (b) 2   (c) 4   (d) 5

3. The number divisible by 5 is:
   (a) 26   (b) 675   (c) 1677   (d) 288

4. The number divisible by 4 is:
   (a) 123   (b) 2,841   (c) 58,024   (d) 39,111

Mental Maths

5. Write all the pairs of twin primes between 10 and 20.

6. The prime factorization of a composite number does not contain _____ and the _____.

7. A number is divisible by _____, if the digit in its ones place is even.

8. A number is divisible by 5 if the sum of its digits is divisible by 5. (True/False)

9. The HCF of numbers is always less than or equal to the given numbers and the LCM of numbers is always greater than or equal to the given numbers. (True/False)

10. If a number 'A' is divisible by 8, then which other numbers will divide it?

11. A number is divisible by 4 as well as 7. Which other number will always divide it?

12. Is $3 \times 5 \times 11 \times 17$ the prime factorization of 2,805?

13. Using divisibility test, determine whether 56,40,888 is divisible by 8 or not.

Questions

14. The HCF and LCM of two numbers is 4 and 24 respectively. If one of the numbers is 8, find the other.

15. Reduce $\dfrac{95}{57}$ to the lowest terms.

16. Find the greatest number which divides 284 and 1,252 leaving the remainder 8 and 10 respectively.

17. Two tankers have 161 L and 345 L of kerosene respectively. Find the maximum capacity of the container that can measure the kerosene of the tankers exact number of times.

18. What is the test of divisibility by 11? Is 60,819 divisible by 11?

19. Using divisibility tests, determine whether 67,67,325 is divisible by 45 or not.

20. The traffic lights at three different road crossings change after every 250 seconds, 75 seconds and 325 seconds respectively. If they change simultaneously at 8 a.m., at what time will they change simultaneously again?

21. Write all the factors of 92.

22. Find whether 1,677 is prime or composite?