Mathematics

(Chapter 3) (Playing with Numbers) (Practice Test - 5)

Class VI

Time Allowed: 1 Hour 15 Minutes   **Maximum Marks: 25**

General Instructions:
➢ This question paper contains four sections – A, B, C, D. Each part is compulsory.
➢ Section – A has 5 MCQ of one mark each.
➢ Section – B has 3 questions of two marks each.
➢ Section – C has 3 questions of three marks each.
➢ Section – D has 2 questions of five marks each, attempt any 1 out of 2.
➢ There is no negative marking.

Section – A

State whether the following statements are True or False:

1. The sum of three odd numbers is even.

(A) True   (B) False   (C) None of these

2. The sum of two odd numbers and one even number is even.

(A) True   (B) False   (C) None of these

3. The product of three odd numbers is odd.

(A) True   (B) False   (C) None of these

4. If an even number is divided by 2, the quotient is always odd.

(A) True   (B) False   (C) None of these

5. All prime numbers are odd.

(A) True   (B) False   (C) None of these

Section – B

6. The HCF of two numbers is 145, their LCM is 2175. If one number is 725, find the other.

7. Express each of the following numbers as the sum of three odd prime numbers: (i) 31, (ii) 35

8. Write all the numbers less than 100 which are common multiples of 3 and 4.

Section – C

9. 18 is divisible by both 2 and 3. It is also divisible by 2 × 3 = 6. Similarly, a number is divisible by both 4 and 6. Can we say that the number must also be divisible by 4 × 6 = 24? If not, give an example to justify your answer

10. Determine the greatest 3-digit number exactly divisible by 8, 10 and 12.

11. Determine the number nearest to 100000 but greater than 100000 which is exactly divisible by each of 8, 15 and 21.

Section – D

12. For each of the following pairs of numbers, verify the property:
Product of the number = Product of their HCF and LCM
(i) 117, 221   (ii) 35, 40

13. Three boys step off together from the same spot. Their steps measure 63 cm, 70 cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?

Answers

Section – A

1. False
2. True
3. True
4. False
5. False

Section - B

6. 435
7. (i) 31 = 5 + 7 + 19
   (ii) 35 = 5 + 7 + 23
8. 12, 24, 36, 48, 60, 72, 84 and 96

Section – C

9. No, since, 12 and 36 are both divisible by 4 and 6. But 12 and 36 are not divisible by 24
10. 1080
11. 100800

Section – D

12. (i) $117 \times 221 = 13 \times 1989 = 25857$
(ii) $35 \times 40 = 5 \times 280 = 1400$
13. 6930 cm