Mathematics

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(Chapter 3) (Playing with Numbers) (Practice Test - 6)

(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

1. The least prime is

(A) 1 (B) 2 (C) 3 (D) 5

2. Which one of the following is a prime number?

(A) 161 (B) 221 (C) 373 (D) 437

3. Which one of the following numbers is divisible by 3?

(A) 27326 (B) 42356 (C) 73545 (D) 45326

4. Find the common factors of 5, 15 and 25

(A) 1, 5 (B) 1, 25 (C) 5, 25 (D) 1, 5, 25

5. The ratio of two numbers is 3:4 and their HCF is 4. Their LCM is

(A) 12 (B) 16 (C) 24 (D) 48

Section – B

6. Find the common factors of 35 and 50

7. Find all the prime factors of 1729 and arrange them in ascending order. Now state the relation, if any; between two consecutive prime factors.

8. 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.

Section – C

9. Find the HCF and LCM of the following pairs of numbers:

117, 221

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

11. What is the HCF of two consecutive:

(i) Numbers? (ii) Even numbers? (iii) Odd numbers?

Section – D

12. (i) A number is divisible by both 5 and 12. By which other number will that number be always divisible? (ii) For the following pairs of numbers, verify the property:

Product of the number = Product of their HCF and LCM

490, 1155

13. What is the largest number that divides 626, 3127 and 15628 and leaves remainders of 1, 2 and 3 respectively?

Answers

Section – A

1. 2
2. 373
3. 73545
4. 1,5
5. 48

Section - B

6. Common factors = 1, 5
7. $1729 = 7 \times 13 \times 19$.

Difference between two consecutive prime factors is 6.

8. No, since, 12 and 36 are both divisible by 4 and 6. But 12 and 36 are not divisible by 24

Section – C

9. HCF – 13, LCM - 1989
10. 435
11. (i) 1
    (ii) 2
    (iii) 1

Section – D

12. (i) 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
    (ii) $490 \times 1155 = 35 \times 16170 = 565950$
13. 625