# Mathematics

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(Chapter 3) (Playing with Numbers) (Practice Test - 2)

(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

Which of the following statements are true and which are false?

1. If a number is divisible by 3, it must be divisible by 9.

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

2. If a number is divisible by 9, it must be divisible by 3.

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

3. A number is divisible by 18, if it is divisible by both 3 and 6.

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

4. If a number is divisible by 9 and 10 both, then it must be divisible by 90.

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

5. If two numbers are co-primes, at least one of them must be prime.

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

## Section – B

6. The LCM and HCF of two numbers are 180 and 6 respectively. If one of the numbers is 30, find the other number.

7. Express each of the following numbers as the sum of two odd primes: (i) 36 (ii) 42

8. Find the HCF of 70, 105, 175

## Section – C

9. What is the smallest odd prime? Is every odd number a prime number? If not, give an example of an odd number which is not prime.

10. Write the greatest 4-digit number and express it in terms of its prime factors.

11. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds, respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again?

## Section – D

12. Which of the following numbers are co-prime?

(i) 18 and 35 (ii) 15 and 37 (iii) 30 and 415

(iv) 17 and 68 (v) 216 and 215

13. Using divisibility tests, determine which of the following numbers are divisible by 11:

(i) 5445 (ii) 10824 (iii) 7138965

(iv) 70169308 (v) 10000001

## Answers

**Section – A**

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

**Section - B**

6. 36
7. (i) 36 = 7 + 29
(ii) 42 = 5 + 37
8. 35

**Section – C**

9. 3 is the smallest odd prime number.
Every odd number is not a prime number.
Example: 9 is an odd number having factors 1, 3 and 9 and is not a prime number.
10. 9999 = 3 × 3 × 11 × 101
11. 7 minutes 12 seconds

**Section – D**

12. (i), (ii), (v)
13. (i), (ii), (iv), (v)