Introduction to Number Play

A. Choose the Correct Answer:

- 1. The smallest prime number is:
 - a) 0 b) 1 c) 2 d) 3
- 2. Which of the following numbers is not a multiple of 9?
 - a) 81 b) 90 c) 93 d) 99
- 3. The sum of the digits of a number is 12. Which of the following could be a multiple of 3?

a) 134	b) 246
c) 357	d) 483

B. Write the Missing Terms to Complete the Sentences:

- 1. A number that has only two factors, 1 and itself, is called a ______ number.
- 2. The product of any number and 1 is ______.
- 3. The number 0 is a multiple of ______.
- 4. The smallest composite number is ______.
- 5. A number divisible by both 2 and 5 is always divisible by _____

C. Figure out the answers to these questions:

- 1. Write all prime numbers between 10 and 30.
- 2. Find the LCM of 12 and 18.
- 3. What is the divisibility rule for 11? Explain with an example.
- 4. Write the first five multiples of 7.
- 5. Find the HCF of 36 and 48 using the prime factorization method.
- 6. Ria has 24 pencils and Rohan has 32 pencils. They want to pack them into boxes of equal numbers. What is the greatest number of pencils that can be packed in each box?
- 7. A school bus stops after every 12 minutes, and another school bus stops after every 18 minutes. If both start at the same time, after how many minutes will they stop together?

8. A number when divided by 5 leaves a remainder of 2. What will be the remainder when the same number is divided by 10?

D. Mark each sentence with a True (\checkmark) or False (X):

- 1. Every even number is a prime number.
- 2. The sum of any two odd numbers is always even.
- 3. The number 1 is neither prime nor composite.
- 4. The smallest multiple of any number is the number itself.
- 5. All numbers divisible by 6 are also divisible by 3.

E. Challenge yourself with these questions:

- 1. Find a number that is divisible by both 4 and 6 but not by 8.
- 2. Find a 3-digit number that is a multiple of both 7 and 9.
- 3. The sum of two numbers is 96, and their HCF is 8. What could be the numbers?
- 4. Find the least number that must be added to 2956 to make it divisible by 7.
- 5. If a number is divisible by both 3 and 4, is it always divisible by 12? Explain with an example.