Prime & Composite Numbers

1. **Write T for true and F for false statement.**

   a. 1 is the smallest prime number.

   b. Every natural number is either prime or composite.

   c. The product of a prime number and an even number is also a prime number.

   d. Two prime numbers are always co-prime but two co-prime numbers need not be prime.

   e. As number 2 has only one factor so it is neither prime nor composite number.

2. **What are prime numbers? Write first ten prime numbers.**

   _____

   _____

3. **How many even numbers are prime numbers?**

   _____

   _____

4. **What do you mean by the term triplet? Give example.**

   _____

   _____

5. **What are composite numbers? Can a composite number be odd?**

   _____

   _____

6. **What are co-primes? Give examples in your support.**

_____

_____

7. **Write seven consecutive numbers less than 100 so that there is no prime number between them.**

_____

8. **Write a pair of twin primes between 40 and 50.**

_____

9. **For a number greater than 10 to be a prime, what may be the possible digits in the units place?**

_____

10. **Express the following composite numbers as sum of two or three prime numbers.**

a. 17 = _____+_____+_____

b. 34 = _____+_____+_____

c. 48 = _____+_____+_____

d. 59 = _____+_____+_____

11. **Express the following as the sum of two odd prime numbers.**

a. 10 = _____+_____

b. 14 = _____+_____

c. 40 = _____+_____

d. 52 = _____+_____

12. Express each of the following numbers as the sum of three odd primes.

a. 35 = _____+_____+_____

b. 43 = _____+_____+_____

c. 57 = _____+_____+_____

d. 21 = _____+_____+_____

13. Fill in the blanks with prime numbers less than 40. Whose sum is divisible by 5?

a. _____+_____= 15

b. _____+_____ = 30

c. _____+_____ = 20

d. _____+_____ = 40

14. Which of the following numbers are prime:

a. 307 ☐ **b.** 129 ☐

c. 397 ☐ **d.** All of these ☐