ACTIVITY – 4

PRIME NUMBERS – Numbers which have only two factors , that is number 1 and the number itself , are called Prime Numbers .

COMPOSITE NUMBERS – Numbers which have more than two factors are called Composite numbers .

TWIN PRIMES - Two prime numbers with a composite number between them are called twin primes .

Q-1. Check whether the number is prime or composite –

a. 5
Factors of 5 are : 1 , 5
As there are only two factors 1 and the number itself , Hence 5 is a prime number .

b. 12
Factors of 12 are : 1 , 2, 3 , 4 , 6 , 12
As there are more than two factors , hence 12 is a composite number .

c. 15

Factors of 15 are : 1 , 3 , 5 , 15

As there are more than two factors , hence 15 is a composite number

e.. 31

Factors of 31 are : 1 , 31
As there are only two factors 1 and the number itself , Hence 31 is a prime number .

g. 52

Factors of 52 are : 1 , 2 , 4 , 26 , 13 , 52

As there are more than two factors , hence 52 is a composite number

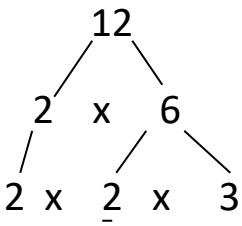
Q-2. List the prime numbers between 75 and 100 .

Sol : numbers are : 79 , 83 , 89 , 97

ACTIVITY – 5

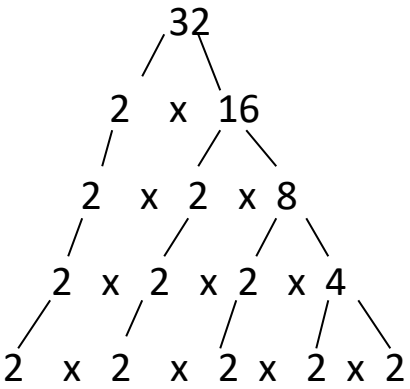
Find the prime factors by factor tree method.

1. 12



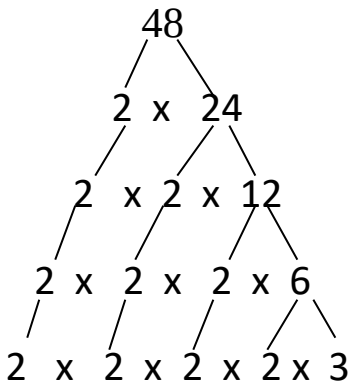
12 = 2 x 2 x 3

2. 32



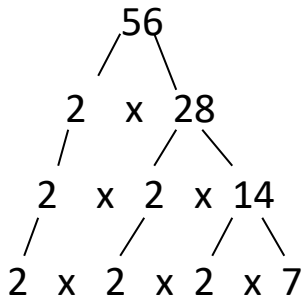
32 = 2 x 2 x 2 x 2 x 2

3. 48



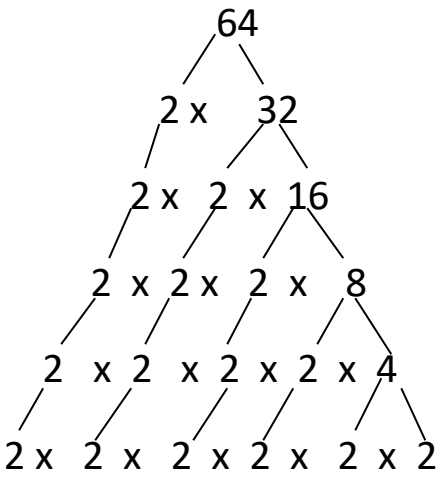
48 = 2 x 2 x 2 x 2 x 3

4. 56



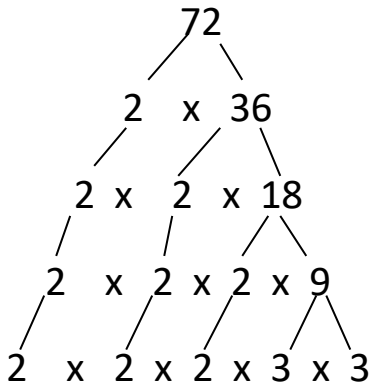
56 = 2 x 2 x 2 x 7

5. 64



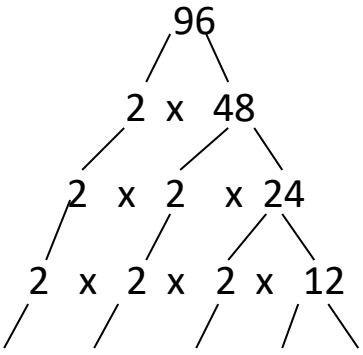
64 = 2 x 2 x 2 x 2 x 2 x 2

6. 72

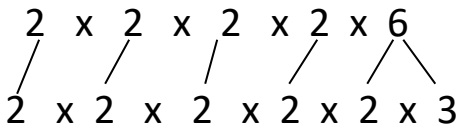


72 = 2 x 2 x 2 x 3 x 3

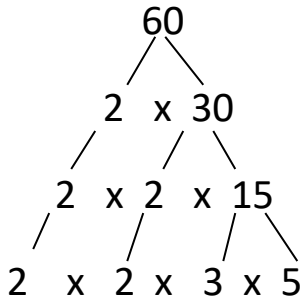
7. 96



96 = 2 x 2 x 2 x 2 x 2 x 3

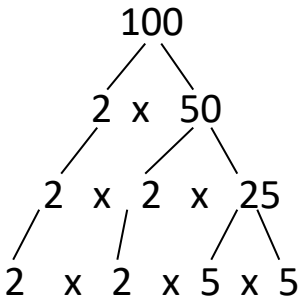


8. 60



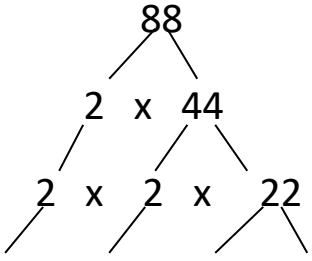
60 = 2 x 2 x 3 x 5

10. 100



100 = 2 x 2 x 5 x 5

11. 88



88 = 2 x 2 x 2 x 11

2 x 2 x 2 x 11