ACTIVITY – 3

Q-1. Use multiplication to find the factors of :

a. 15

15 = 1 x 15 , 15 = 15 x 1

15 = 3 x 5 , 15 = 5 x 3

Thus factors of 15 are : 1 , 3 , 5 and 15

b. 20

20 = 1 x 20 , 20 = 20 x 1

20 = 2x 10 , 20 = 10 x2

20 = 4x 5 , 20 = 5 x4

Thus factors of 20 are : 1 , 2 , 4 , 5 , 10 and 20

d.. 28

28 = 1 x28 , 28 = 28 x 1

28 = 2 x 14 , 28 = 14 x 2

28 = 4 x 7 . 28 = 7 x 4

Thus factors of 28 are : 1 , 2 , 4 , 7 ,14 and 28

Q-2. Use division to find the factors of :

a. 12

12 ÷ 1 = 12

12 ÷ 2 = 6

12 ÷ 3 = 4

12 ÷ 4 = 3

12 ÷ 6 = 2

Thus factors of 12 are : 1 , 2 , 3 , 4 , 6 and 12

b. 18

18 ÷ 1 = 18

18 ÷ 2 = 9

18 ÷ 3 = 6

18 ÷ 6 = 3

18 ÷ 9 = 2 Thus factors of 18 are : 1 , 2 , 3 , 6 , 9 and 18

Q-4. Find the common factors :

a. 4 and 10
   Factors of 4 are = 1 , 2 , 4
   Factors of 10 are = 1 , 2 , 5 , 10
   Common factors are = 1 and 2

b. 9 and 27
   Factors of are = 1 , 3 , 9

   Factors of 23 are = 1 , 3 , 9 , 27

   Common factors are = 1 , 3 and 9

c. 12 and 20
   Factors of 12 are = 1 , 2 , 3 , 4 , 6 , 12
   Factors of 20 are = 1 , 2 , 4 , 5 , 10 , 20
   Common factors are = 1 , 2 and 4

Q-5. Find the HCF of the following :

a. 4 and 6
   Factors of 4 are = 1 , 2 , 4
   Factors of 6 are = 1 , 2 , 3 , 6
   Common factors are = 1 and 2
   HCF = 2

b. 9 and 15
   Factors of 9 are = 1 , 3 , 9
   Factors of 15 are = 1 , 3 , 5 , 15
   Common factors are = 1 and 3
   HCF = 3

e.. 6 , 12 and 24

   Factors of 6 are = 1 , 2 , 3 , 6

   Factors of 12 are = 1 , 2 , 3 , 4 , 6 , 12

Factors of 24 are = 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

Common factors are = 1 , 2 , 3 , 6

HCF = 6