Playing with Numbers Ex 2.2 Q1

Answer :

(i) 15 and 25

$15 = 1 \times 15$

$15 = 3 \times 5$

i.e., the factors of 15 are 1, 3, 5 and 15.

Again, $25 = 1 \times 25$

$25 = 5 \times 5$

i.e., the factors of 25 are 1, 5 and 25.

Therefore, the common factors of the two numbers are 1 and 5.

(ii) 35 and 50

$35 = 1 \times 35$

$35 = 5 \times 7$

i.e., the factors of 35 are 1, 5, 7 and 35.

Again, $50 = 1 \times 50$

$50 = 2 \times 25$

$50 = 5 \times 10$

i.e., the factors of 50 are 1, 2, 5, 10, 25 and 50.

Therefore, the common factors of the two numbers are 1 and 5.

(iii) 20 and 28

$20 = 1 \times 20$

$20 = 2 \times 10$

$20 = 4 \times 5$

i.e., the factors of 20 are 1, 2 , 4, 5, 10 and 20.

Again, $28 = 1 \times 28$

$28 = 2 \times 14$

$28 = 7 \times 4$

i.e., the factors of 28 are 1, 2, 4, 7, 14 and 28.

Therefore, the common factors of the two numbers are 1, 2 and 4.

Playing with Numbers Ex 2.2 Q2

Answer :

(i) 5, 15 and 25

Factors of 5 are 1 and 5

Factors of 15 are 1, 3, 5 and 15

Factors of 25 are 1, 5 and 25

Therefore, the common factors of 5, 15, and 25 are 1 and 5.

(ii) 2, 6 and 8

Factors of 2 are 1 and 2

Factors of 6 are 1, 2, 3 and 6

Factors of 8 are 1, 2, 4 and 8

Therefore, the common factors of 2, 6 and 8 are 1 and 2.

Playing with Numbers Ex 2.2 Q3

Answer :

Multiples of 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, ...

Multiples of 8: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, ...

Therefore, the first three common multiples of 6 and 8 are 24, 48 and 72.

********** END **********