



### Playing with Numbers Ex 2.1 Q1

**Answer :**

(i) **Factor:** A factor of a number is an exact divisor of that number.  
For example, 4 exactly divides 32. Therefore, 4 is a factor of 32.

**Examples of factors are:**

2 and 3 are factors of 6 because  $2 \times 3 = 6$

2 and 4 are factors of 8 because  $2 \times 4 = 8$

3 and 4 are factors of 12 because  $3 \times 4 = 12$

3 and 5 are factors of 15 because  $3 \times 5 = 15$

(ii) **Multiple:** When a number 'a' is multiplied by another number 'b', the product is the multiple of both the numbers 'a' and 'b'.

**Examples of multiples:**

6 is a multiple of 2 because  $2 \times 3 = 6$

8 is a multiple of 4 because  $4 \times 2 = 8$

12 is a multiple of 6 because  $6 \times 2 = 12$

21 is a multiple of 7 because  $7 \times 3 = 21$

### Playing with Numbers Ex 2.1 Q2

**Answer :**

(i)  $60 = 1 \times 60$

$$60 = 2 \times 30$$

$$60 = 3 \times 20$$

$$60 = 4 \times 15$$

$$60 = 5 \times 12$$

$$60 = 6 \times 10$$

$\therefore$  The factors of 60 are 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60.

(ii)  $76 = 1 \times 76$

$$76 = 2 \times 38$$

$$76 = 4 \times 19$$

$\therefore$  The factors of 76 are 1, 2, 4, 19, 38 and 76.

(iii)  $125 = 1 \times 125$

$$125 = 5 \times 25$$

$\therefore$  The factors of 125 are 1, 5, 25 and 125.

(iv)  $729 = 1 \times 729$

$$729 = 3 \times 243$$

$$729 = 9 \times 81$$

$$729 = 27 \times 27$$

$\therefore$  The factors of 729 are 1, 3, 9, 27, 81, 243 and 729.

### Playing with Numbers Ex 2.1 Q3

**Answer :**

(i) The first five multiples of 25 are as follows:

$$25 \times 1 = 25$$

$$25 \times 2 = 50$$

$$25 \times 3 = 75$$

$$25 \times 4 = 100$$

$$25 \times 5 = 125$$

(ii) The first five multiples of 35 are as follows:

$$35 \times 1 = 35$$

$$35 \times 2 = 70$$

$$35 \times 3 = 105$$

$$35 \times 4 = 140$$

$$35 \times 5 = 175$$

(iii) The first five multiples of 45 are as follows:

$$45 \times 1 = 45$$

$$45 \times 2 = 90$$

$$45 \times 3 = 135$$

$$45 \times 4 = 180$$

$$45 \times 5 = 225$$

(iv) The first five multiples of 40 are as follows:

$$40 \times 1 = 40$$

$$40 \times 2 = 80$$

$$40 \times 3 = 120$$

$$40 \times 4 = 160$$

$$40 \times 5 = 200$$

\*\*\*\*\* END \*\*\*\*\*