



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:

$$40 \times 1 = 40$$

$$40 \times 2 = 80$$

$$40 \times 3 = 120$$

$$40 \times 4 = 160$$

$$40 \times 5 = 200$$

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