



## Exercise 2A

Q1

**Answer :**

Factor: A factor of a number is an exact divisor of that number.

Multiple: A multiple of a number is a number obtained by multiplying it by a natural number.

Example 1: We know that  $15 = 1 \times 15$  and  $15 = 3 \times 5$

$\therefore$  1, 3, 5 and 15 are the factors of 15.

In other words, we can say that 15 is a multiple of 1, 3, 5 and 15.

Example 2: We know that  $8 = 8 \times 1$ ,  $8 = 2 \times 4$  and  $8 = 4 \times 2$

$\therefore$  1, 2, 4 and 8 are the factors of 8.

In other words, we can say that 8 is a multiple of 1, 2, 4 and 8.

Example 3: We know that  $30 = 30 \times 1$ ,  $30 = 5 \times 6$  and  $30 = 6 \times 5$

Q2

**Answer :**

(i) 20

$20 = 1 \times 20$ ;  $20 = 10 \times 2$  and  $20 = 4 \times 5$

The factors of 20 are 1, 2, 4, 5, 10 and 20.

(ii) 36

$36 = 1 \times 36$ ;  $36 = 2 \times 18$ ;  $36 = 3 \times 12$  and  $36 = 4 \times 9$

The factors of 36 are 1, 2, 3, 4, 6, 9, 12 and 36.

(iii) 60

$60 = 1 \times 60$ ;  $60 = 2 \times 30$ ;  $60 = 3 \times 20$ ;  $60 = 4 \times 15$  and  $60 = 5 \times 12$

The factors of 60 are 1, 2, 3, 4, 5, 6, 10, 12, 15 and 60.

(iv) 75

$75 = 1 \times 75$ ;  $75 = 3 \times 25$  and  $75 = 5 \times 15$

The factors of 75 are 1, 3, 5, 15, 25 and 75.

Q3

**Answer :**

(i) 17

$17 \times 1 = 17$ ;  $17 \times 2 = 34$ ;  $17 \times 3 = 51$ ;  $17 \times 4 = 68$  and  $17 \times 5 = 85$

$\therefore$  The first five multiples of 17 are 17, 34, 51, 68 and 85.

(ii) 23

$23 \times 1 = 23$ ;  $23 \times 2 = 46$ ;  $23 \times 3 = 69$ ;  $23 \times 4 = 92$  and  $23 \times 5 = 115$

$\therefore$  The first five multiples of 23 are 23, 46, 69, 92 and 115.

(iii) 65

$65 \times 1 = 65$ ;  $65 \times 2 = 130$ ;  $65 \times 3 = 195$ ;  $65 \times 4 = 260$  and  $65 \times 5 = 325$

$\therefore$  The first five multiples of 65 are 65, 130, 195, 260 and 325.

(iv) 70

$70 \times 1 = 70$ ;  $70 \times 2 = 140$ ;  $70 \times 3 = 210$ ;  $70 \times 4 = 280$  and  $70 \times 5 = 350$

$\therefore$  The first five multiples of 70 are 70, 140, 210, 280 and 350.

Q4

**Answer :**

(i) 32

Since 32 is a multiple of 2, it is an even number.

(ii) 37

Since 37 is not a multiple of 2, it is an odd number.

(iii) 50

Since 50 is a multiple of 2, it is an even number.

(iv) 58

Since 58 is a multiple of 2, it is an even number.

(v) 69

Since 69 is not a multiple of 2, it is an odd number.

(vi) 144

Since 144 is a multiple of 2, it is an even number.

(vii) 321

Since 321 is not a multiple of 2, it is an odd number.

(viii) 253

Since 253 is not a multiple of 2, it is an odd number.

Q5

**Answer :**

**Prime number:** A number is called a prime number if it has only two factors, namely 1 and itself .

Examples: 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29 are prime numbers.

Q6

**Answer :**

(i) All prime numbers between 10 and 40 are 11, 13, 17, 19, 23, 29, 31 and 37.

(ii) All prime numbers between 80 and 100 are 83, 89 and 97.

(iii) All prime numbers between 40 and 80 are 41, 43, 47, 53, 59, 61, 67, 71, 73 and 79.

(iv) All prime numbers between 30 and 40 are 31 and 37.

Q7

**Answer :**

(i) The smallest prime number is 2.

(ii) There is only one even prime number, i.e., 2.

(iii) The smallest odd prime number is 3.

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