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Class 6 Maths Chapter 3 Playing with Numbers

Exercise 3.1

Question 1: Write all the factors of the following numbers:

(a) 24 (b) 15 (c) 21 (d) 27 (e) 12 (f) 20 (g) 18 (h) 23 (i) 36

Answer 1:

$$(a) 24 = 1 \times 24 = 2 \times 12 = 3 \times 8 = 4 \times 6 = 6 \times 4$$

∴ Factors of 24 = 1, 2, 3, 4, 6, 12, 24

$$(b) 15 = 1 \times 15 = 3 \times 5 = 5 \times 3$$

∴ Factors of 15 = 1, 3, 5, 15

$$(c) 21 = 1 \times 21 = 3 \times 7 = 7 \times 3$$

∴ Factors of 21 = 1, 3, 7, 21

$$(d) 27 = 1 \times 27 = 3 \times 9 = 9 \times 3$$

∴ Factors of 27 = 1, 3, 9, 27

$$(e) 12 = 1 \times 12 = 2 \times 6 = 3 \times 4 = 4 \times 3$$

∴ Factors of 12 = 1, 2, 3, 4, 6, 12

$$(f) 20 = 1 \times 20 = 2 \times 10 = 4 \times 5 = 5 \times 4$$

∴ Factors of 20 = 1, 2, 4, 5, 10, 20

$$(g) 18 = 1 \times 18 = 2 \times 9 = 3 \times 6$$

∴ Factors of 18 = 1, 2, 3, 6, 9, 18

$$(h) 23 = 1 \times 23$$

∴ Factors of 23 = 1, 23

$$(i) 36 = 1 \times 36 = 2 \times 18 = 3 \times 12 = 4 \times 9 = 6 \times 6$$

∴ Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

Question 2 : Write first five multiples of:

(a) 5 (b) 8 (c) 9

Answer :

$$(a) 5 \times 1 = 5, 5 \times 2 = 10, 5 \times 3 = 15, 5 \times 4 = 20, 5 \times 5 = 25$$

∴ First five multiples of 5 are 5, 10, 15, 20, 25.

$$(b) 8 \times 1 = 8, 8 \times 2 = 16, 8 \times 3 = 24, 8 \times 4 = 32, 8 \times 5 = 40$$

∴ First five multiples of 8 are 8, 16, 24, 32, 40.

$$(c) 9 \times 1 = 9, 9 \times 2 = 18, 9 \times 3 = 27, 9 \times 4 = 36, 9 \times 5 = 45$$

∴ First five multiples of 9 are 9, 18, 27, 36, 45.

Question 3: Match the items in column 1 with the items in column 2:

Column 1

(i) 35

(ii) 15

(iii) 16

(iv) 20

(v) 20

Column 2

(b) Multiple of 7

(d) Factor of 30

(a) Multiple of 8

(c) Multiple of 70

(e) Factor of 50

Question 4: Find all the multiples of 9 up to 100.

Answer : Multiples of 9 up to 100 are: 9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99