Topic: Factor

Exercise 3

Use the **multiplication tables** to list the factor of given number.

1 × 1 = 1	2 × 1 = 2	3 × 1 = 3	4 × 1 = 4	5 × 1 = 5	6 × 1 = 6
1 × 2 = 2	2 × 2 = 4	3 × 2 = 6	4 × 2 = 8	5 × 2 = 10	6 × 2 = 12
1 × 3 = 3	2 × 3 = 6	3 × 3 = 9	4 × 3 = 12	5 × 3 = 15	6 × 3 = 18
1 × 4 = 4	2 × 4 = 8	3 × 4 = 12	4 × 4 = 16	5 × 4 = 20	6 × 4 = 24
1 × 5 = 5	2 × 5 = 10	3 × 5 = 15	4 × 5 = 20	5 × 5 = 25	6 × 5 = 30
1 × 6 = 6	2 × 6 = 12	3 × 6 = 18	4 × 6 = 24	5 × 6 = 30	6 × 6 = 36
1 × 7 = 7	2 × 7 = 14	3 × 7 = 21	4 × 7 = 28	5 × 7 = 35	6 × 7 = 42
1 × 8 = 8	2 × 8 = 16	3 × 8 = 24	4 × 8 = 32	5 × 8 = 40	6 × 8 = 48
1 × 9 = 9	2 × 9 = 18	3 × 9 = 27	4 × 9 = 36	5 × 9 = 45	6 × 9 = 54
1 × 10 = 10	2 × 10 = 20	3 × 10 = 30	4 × 10 = 40	5 × 10 = 50	6 × 10 = 60
1 × 11 = 11	2 × 11 = 22	3 × 11 = 33	4 × 11 = 44	5 × 11 = 55	6 × 11 = 66
1 × 12 = 12	2 × 12 = 24	3 × 12 = 36	4 × 12 = 48	5 × 12 = 60	6 × 12 = 72

7 × 1 = 7	8 × 1 = 8	9 × 1 = 9	10 × 1 = 10	11 × 1 = 11	12 × 1 = 12
7 × 2 = 14	8 × 2 = 16	9 × 2 = 18	10 × 2 = 20	11 × 2 = 22	12 × 2 = 24
7 × 3 = 21	8 × 3 = 24	9 × 3 = 27	10 × 3 = 30	11 × 3 = 33	12 × 3 = 36
7 × 4 = 28	8 × 4 = 32	9 × 4 = 36	10 × 4 = 40	11 × 4 = 44	12 × 4 = 48
7 × 5 = 35	8 × 5 = 40	9 × 5 = 45	10 × 5 = 50	11 × 5 = 55	12 × 5 = 60
7 × 6 = 42	8 × 6 = 48	9 × 6 = 54	10 × 6 = 60	11 × 6 = 66	12 × 6 = 72
7 × 7 = 49	8 × 7 = 56	9 × 7 = 63	10 × 7 = 70	11 × 7 = 77	12 × 7 = 84
7 × 8 = 56	8 × 8 = 64	9 × 8 = 72	10 × 8 = 80	11 × 8 = 88	12 × 8 = 96
7 × 9 = 63	8 × 9 = 72	9 × 9 = 81	10 × 9 = 90	11 × 9 = 99	12 × 9 = 108
7 × 10 = 70	8 × 10 = 80	9 × 10 = 90	10 × 10 = 100	11 × 10 = 110	12 × 10 = 120
7 × 11 = 77	8 × 11 = 88	9 × 11 = 99	10 × 11 = 110	11 × 11 = 121	12 × 11 = 132
7 × 12 = 84	8 × 12 = 96	9 × 12 = 108	10 × 12 = 120	11 × 12 = 132	12 × 12 = 144

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i) Check for factor using division.

a) is 3 a factor of 19? ☐

b) is 3 a factor of 36? ☐

3) 1 9

3) 3 6

Why? It has ☐

Why? It has ☐

ii) **Find the common factor by using multiplication tables.**

a) Find the **common factor of 6 and 8**.

Factor of 6

□ x □ = 6

□ x □ = 6

Factor of 8

□ x □ = 8

□ x □ = 8

Factor of 6: □ , □ , □ , □

Factor of 8: □ , □ , □ , □

The common factors of 6 and 8 are □ and □ .

b) Find the **common factor of 8 and 12**.

Factor of 8

□ x □ = 8

□ x □ = 8

Factor of 12

□ x □ = 12

□ x □ = 12

□ x □ = 12

Factor of 8: □ , □ , □ , □

Factor of 12: □ , □ , □ , □ , □ , □

The **common factors of 8 and 12** are □ , □ and □ .

c) Find the **common factor of 8 and 16**.

Factor of 8

☐ x ☐ = 8

☐ x ☐ = 8

Factor of 16

☐ x ☐ = 16

☐ x ☐ = 16

☐ x ☐ = 16

Factor of 8: ☐ , ☐ , ☐ , ☐

Factor of 16: ☐ , ☐ , ☐ , ☐ , ☐

The **common factors of 8 and 16** are ☐ , ☐ , ☐ and ☐ .

d) Find the **common factor of 16 and 24**.

Factor of 16

☐ x ☐ = 16

☐ x ☐ = 16

☐ x ☐ = 16

Factor of 24

☐ x ☐ = 24

☐ x ☐ = 24

☐ x ☐ = 24

☐ x ☐ = 24

Factor of 16: ☐ ☐ ☐ ☐ ☐

Factor of 24: ☐ , ☐ , ☐ , ☐ , ☐ , ☐ , ☐ , ☐

The **common factors of 16 and 24** are ☐ , ☐ , ☐ and ☐ .