

Topic: Factor

Name:

Year 4:

Exercise 3

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

1 × 1 = 1 1 × 2 = 2 1 × 3 = 3 1 × 4 = 4 1 × 5 = 5 1 × 6 = 6 1 × 7 = 7 1 × 8 = 8 1 × 9 = 9 1 × 10 = 10 1 × 11 = 11 1 × 12 = 12	2 × 1 = 2 2 × 2 = 4 2 × 3 = 6 2 × 4 = 8 2 × 5 = 10 2 × 6 = 12 2 × 7 = 14 2 × 8 = 16 2 × 9 = 18 2 × 10 = 20 2 × 11 = 22 2 × 12 = 24	3 × 1 = 3 3 × 2 = 6 3 × 3 = 9 3 × 4 = 12 3 × 5 = 15 3 × 6 = 18 3 × 7 = 21 3 × 8 = 24 3 × 9 = 27 3 × 10 = 30 3 × 11 = 33 3 × 12 = 36	4 × 1 = 4 4 × 2 = 8 4 × 3 = 12 4 × 4 = 16 4 × 5 = 20 4 × 6 = 24 4 × 7 = 28 4 × 8 = 32 4 × 9 = 36 4 × 10 = 40 4 × 11 = 44 4 × 12 = 48	5 × 1 = 5 5 × 2 = 10 5 × 3 = 15 5 × 4 = 20 5 × 5 = 25 5 × 6 = 30 5 × 7 = 35 5 × 8 = 40 5 × 9 = 45 5 × 10 = 50 5 × 11 = 55 5 × 12 = 60	6 × 1 = 6 6 × 2 = 12 6 × 3 = 18 6 × 4 = 24 6 × 5 = 30 6 × 6 = 36 6 × 7 = 42 6 × 8 = 48 6 × 9 = 54 6 × 10 = 60 6 × 11 = 66 6 × 12 = 72
7 × 1 = 7 7 × 2 = 14 7 × 3 = 21 7 × 4 = 28 7 × 5 = 35 7 × 6 = 42 7 × 7 = 49 7 × 8 = 56 7 × 9 = 63 7 × 10 = 70 7 × 11 = 77 7 × 12 = 84	8 × 1 = 8 8 × 2 = 16 8 × 3 = 24 8 × 4 = 32 8 × 5 = 40 8 × 6 = 48 8 × 7 = 56 8 × 8 = 64 8 × 9 = 72 8 × 10 = 80 8 × 11 = 88 8 × 12 = 96	9 × 1 = 9 9 × 2 = 18 9 × 3 = 27 9 × 4 = 36 9 × 5 = 45 9 × 6 = 54 9 × 7 = 63 9 × 8 = 72 9 × 9 = 81 9 × 10 = 90 9 × 11 = 99 9 × 12 = 108	10 × 1 = 10 10 × 2 = 20 10 × 3 = 30 10 × 4 = 40 10 × 5 = 50 10 × 6 = 60 10 × 7 = 70 10 × 8 = 80 10 × 9 = 90 10 × 10 = 100 10 × 11 = 110 10 × 12 = 120	11 × 1 = 11 11 × 2 = 22 11 × 3 = 33 11 × 4 = 44 11 × 5 = 55 11 × 6 = 66 11 × 7 = 77 11 × 8 = 88 11 × 9 = 99 11 × 10 = 110 11 × 11 = 121 11 × 12 = 132	12 × 1 = 12 12 × 2 = 24 12 × 3 = 36 12 × 4 = 48 12 × 5 = 60 12 × 6 = 72 12 × 7 = 84 12 × 8 = 96 12 × 9 = 108 12 × 10 = 120 12 × 11 = 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? ☐

$$\begin{array}{r} 3 \overline{) 19} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 3 \overline{) 36} \\ \underline{} \\ \end{array}$$

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

$$\square \times \square = 6$$

$$\square \times \square = 6$$

Factor of 8

$$\square \times \square = 8$$

$$\square \times \square = 8$$

Factor of 6: $\square$, $\square$, $\square$, $\square$

Factor of 8: $\square$, $\square$, $\square$, $\square$

The **common factors of 6 and 8** are $\square$ and $\square$.

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

Factor of 8

$$\square \times \square = 8$$

$$\square \times \square = 8$$

Factor of 12

$$\square \times \square = 12$$

$$\square \times \square = 12$$

$$\square \times \square = 12$$

Factor of 8: $\square$, $\square$, $\square$, $\square$

Factor of 12: $\square$, $\square$, $\square$, $\square$, $\square$, $\square$

The **common factors of 8 and 12** are $\square$, $\square$ and $\square$.