

12

Factors of a Number

Here's How

Find all of the factors of 20.

Whole numbers that can be multiplied to get another number are factors of that number.

- ▶ $1 \times 20 = 20$ First, think of all the pairs of factors that have a product of 20.
 $2 \times 10 = 20$
 $4 \times 5 = 20$ List each factor.

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

Try These

Finish each multiplication problem. Then list all the factors.

1. $1 \times 6 = 6$ $2 \times \square = 6$

Be sure to write all the factors.

- ▶ Factors of 6: 1, 6, 2,

2. $\square \times \square = 4$ $\square \times \square = 4$

You need to list each factor only once.

- ▶ Factors of 4: , ,

3. $\square \times \square = 12$ $\square \times \square = 12$ $\square \times \square = 12$

Factors of 12: , , , , ,

4. $\square \times \square = 16$ $\square \times \square = 16$ $\square \times \square = 16$

Factors of 16: , , , ,

Some numbers have only two factors.

- ▶ 5. $\square \times \square = 7$

Factors of 7: ,

6. $\square \times \square = 10$ $\square \times \square = 10$

Factors of 10: , , ,

The logo consists of the words "Go Ahead" in a white, sans-serif font, centered within a dark blue oval. A white swoosh underline starts from the left side of the oval and curves upwards and to the right, ending under the word "Ahead".

Write all of the factors of each number.

1. 8 _____

2. 15 _____

3. 10 _____

4. 5 _____

5. 18 _____

6. 25 _____

7. 11 _____

8. 30 _____

9. 9 _____

10. 24 _____

11. 32 _____

Use this space to write the multiplication problems if you need to.

30 has 8 factors! Be sure to list all of them.