

Factors

When multiplying two numbers, you know that both numbers are factors of the product.

Example 1

Find the factors of 24.

Factors	Product
↓	↓
$1 \times 24 = 24$	
$2 \times 12 = 24$	
$3 \times 8 = 24$	
$4 \times 6 = 24$	

Factors of 24:

1, 2, 3, 4, 6, 8, 12, and 24

Example 2

What numbers can you multiply together to get 16? Find the factors of 16.

What two numbers multiply together to equal 16?

$$1 \times 16 = 16$$

$$2 \times 8 = 16$$

$$4 \times 4 = 16$$

$$8 \times 2 = 16$$

$$16 \times 1 = 16$$

Factors of 16: 1, 2, 4, 8, and 16

List all the factors of each number.

1. 18

2. 21

3. 11

4. 14

5. 23

6. 33

7. **Number Sense** Look at the following multiplication sentences: 2×14 and 3×7 . Are these numbers all factors of the same product? Explain your answer.
