

Introduction: Factors

A **factor** of a number goes into the number evenly with no remainder.

Hints

- 1 is a factor of every number.
- Every number is a factor of itself.
- If the number is even, then 2 is a factor.
- If the number ends in 0, then 10 is a factor.
- If the number ends in 5 or 0, then 5 is a factor

Basic Skills

Problem: Find all the factors of 12.

- 1 is always a factor. 1
- Every number is a factor of itself. 12
- 12 is even, so 2 is a factor. 2
- Other ways to make 12. 6
 $2 \times 6 = 12$
 $3 \times 4 = 12$ 3, 4

The factors of 12 are: 1, 2, 3, 4, 6, 12

Basic Skills Practice

Problem: Find all the factors of 25.

- 1 is always a factor. 1
- 25 ends in 5, so 5 is a factor. 5
- Every number is a factor of itself. 25
- Other ways to make 25? 5
 $5 \times 5 = 25$

The factors of 25 are: _____

Practice Problems

Find all the factors.

- A. 15
- B. 26