Unit 1, Lesson 7

# Find Factors and Multiples

Let's find factors and multiples of whole numbers from 1 to 100.

Warm-up

## Number Talk: Division

Find the value of each expression mentally.

- $12 \div 3$
- $30 \div 3$
- $60 \div 3$
- $72 \div 3$

Activity 1

## Factor and Multiple Statements

1. For each number, complete a statement using the word "factor" and a statement using the word "multiple."

| number | factor | multiple |
|---|---|---|
| 10 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 7 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 50 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 16 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |

| number | factor | multiple |
|---|---|---|
| 35 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 20 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 19 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |
| 6 | _____ is a factor of _____ because . . . | _____ is a multiple of _____ because . . . |

2. As you compare statements with your partner, discuss one thing you notice and one thing you wonder.

## Section B Summary

We used what we learned about factors, multiples, and prime and composite numbers between 1 and 100 to play games and solve problems.

We learned that numbers can share factors and multiples. Example:

- The number 2 is a factor of 6 and and also a factor of 8.
- The number 24 is a multiple 6 and also a multiple of 8.

Knowing about factors and multiples helped us answer questions such as:

- "Can we put 24 chairs in 6 equal rows? What about 7 equal rows or 8 equal rows?"
- "If there are 20 lockers in a row (numbered 1 to 20) and a student touches every fourth locker, how many lockers would they touch? Which locker numbers would they touch?"