

Lesson 6-7 • Apply Day

Reinforce Understanding

Multiples and the Least Common Multiple

I can find the greatest common factor and the least common multiple of two numbers, and use each to solve a real problem.

Worked model

Find the least common multiple of 6 and 9.

1. List multiples of 6. 6, 12, 18, 24
2. List multiples of 9. 9, 18, 27
3. Find the first number that appears in both lists. 18
4. That number is the least common multiple. LCM = 18

Answer: The least common multiple of 6 and 9 is 18.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Find the greatest common factor of 18 and 30.

Complete each step, then write the final answer.

1. List the factors of 18: ____.
2. List the factors of 30: ____.
3. Choose the greatest factor in both lists: ____.

Answer: _____

2. Find the greatest common factor of 24 and 36.

Complete each step, then write the final answer.

1. List the factors of 24: ____.
2. List the factors of 36: ____.
3. Choose the greatest factor in both lists: ____.

Answer: _____

3. Find the greatest common factor of 28 and 42.

Complete each step, then write the final answer.

1. List the factors of 28: ____.
2. List the factors of 42: ____.
3. Choose the greatest factor in both lists: ____.

Answer: _____