

Lesson 6-7 • Group 1

Reinforce Understanding

6.7 Small Group • Group 1

With my small group, I can find the greatest common factor and the least common multiple of two numbers, and use each to solve a real problem — one step at a time, with support.

Worked model

Find the greatest common factor of 16 and 24.

1. List the factors of 16. 1, 2, 4, 8, 16
2. List the factors of 24. 1, 2, 3, 4, 6, 8, 12, 24
3. Mark the factors that are in both lists. 1, 2, 4, 8
4. Pick the greatest shared factor. GCF = 8

Answer: The greatest common factor of 16 and 24 is 8.

Practice

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

1. Sort each number by its relationship to 10.

Write the name of the correct group on each line.

Groups: A factor of 10 A multiple of 10

- _____ 2
- _____ 20
- _____ 5
- _____ 30
- _____ 10
- _____ 50

2. The store has 48 pencils and 36 notebooks. Complete the factor lists, then find the GCF.

Complete the table. Show how you found each value.

Number	Factors	GCF
48	1, 2, 3, 4, 6, 8, 12, 16, 24, 48	
36		

Show your work

3. Which list shows all the factors of 12?

Circle the letter of the best answer. Show how you know.

- A. 1, 2, 3, 4, 6, 12
- B. 1, 12
- C. 2, 3, 4, 6
- D. 12, 24, 36, 48

Show your work
