

Name _____

Greatest Common Factor

R 7-9

The greatest common factor (GCF) of two numbers is the greatest number that is a factor of both.

Find the greatest common factor of 12 and 18.

Step 1: List the factors of 12 and 18. Think of all the numbers that can be divided into 12 and 18 evenly.

12: 1, 2, 3, 4, 6, 12

18: 1, 2, 3, 6, 9, 18

Step 2: Circle the common factors.

12: ①, ②, ③, 4, ⑥, 12

18: ①, ②, ③, ⑥, 9, 18

Step 3: Find the greatest common factor.

The greatest common factor of 12 and 18 is 6.

Find the GCF of each pair of numbers.

1. 9, 27 _____

2. 25, 40 _____

3. 7, 36 _____

4. 40, 48 _____

5. 16, 28 _____

6. 24, 42 _____

7. 21, 35 _____

8. 30, 70 _____

9. **Number Sense** Can the GCF of 18 and 36 be greater than 18? Explain.
