

Lesson 1 Reteach

Factors and Multiples

The **greatest common factor (GCF)** of two or more numbers is the greatest of the common factors of the numbers. The smallest number that is a multiple of two or more whole numbers is the **least common multiple (LCM)** of the numbers.

Example 1

Find the GCF of 12 and 30.

Make an organized list of the factors for each number.

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

Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30.

The common factors are 1, 2, 3, and 6. The greatest is 6.

So, the GCF of 12 and 30 is 6.

Example 2

Find the LCM of 6 and 15.

List the multiples of each number.

Multiples of 6: 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, ...

Multiples of 15: 15, 30, 45, 60, ...

Notice that 30 and 60 are common multiples.

The least common multiple of 6 and 15 is 30.

Exercises

Find the GCF of each set of numbers.

1. 6, 12 _____

2. 28, 42 _____

3. 44, 55 _____

4. 35, 20, 15 _____

Find the LCM of each set of numbers.

5. 5, 6 _____

6. 6, 8 _____

7. 4, 10 _____

8. 15, 12 _____

Lesson 1 Skills Practice**Factors and Multiples**

Find the GCF of each set of numbers.

1. 15, 40 _____

2. 16, 36 _____

3. 12, 54 _____

4. 24, 64 _____

5. 39, 26 _____

6. 35, 63 _____

7. 36, 48 _____

8. 35, 28 _____

Find the LCM of each set of numbers.

9. 7, 10 _____

10. 7, 49 _____

11. 5, 10 _____

12. 12, 18 _____

13. 8, 28 _____

14. 6, 14 _____

15. 12, 15 _____

16. 9, 24 _____