



Greatest Common Factor

Factors are the numbers you can multiply together to get a certain number.

$$3 \times 3 \text{ is } 9 \quad \text{and} \quad 9 \times 1 \text{ is } 9$$

1, 3, and 9 are factors of 9.

To find the greatest common factor of 9 and 12, list all the factors and find the highest one they have in common:

Factors of 9 and 12

9: 1, 3, 9

12: 1, 2, 3, 4, 6, 12 (1 × 12; 2 × 6; 3 × 4)

The greatest common factor of 9 and 12 is 3.

Meets Common Core Standard: 6.NS.B.4