5.2 Greatest Common Factor

Common Factors

Factors of two or more numbers that are the same

Greatest Common Factor

Largest number that is a factor of both humbers

more than one way to find this

1. Factor Lists

2. Prime Factorization

Product form

128 - 2 x 2 x 2 x 2 x 2 x 2 x 2

72 - 2 x 2 x 2 x 3 x 3

2x2x2 = 8

Circle all factors in common and multiply the circled numbers

Power form $128 - 2^{7}$ $72 - 2^{3} \cdot 3^{2}$

Lowest exponent of the common factors $2^3 = 8$

