## Greatest Common Factor Part 1

The greatest common factor (GCF) is the largest factor that divides two numbers.

## EXAMPLE: Find the greatest common factor of 6 and 10.

Step 1	Step 2	ANSWER
Find the prime factors of each number. 6 = 2 × 3 10 = 2 × 5	Find the common prime factors that 6 and 10 have. $6 = \begin{vmatrix} 2 \\ 2 \end{vmatrix} \times 3$ $10 = \begin{vmatrix} 2 \\ 2 \end{vmatrix} \times 5$	The great common factor of 6 and 10 is



PART 1. Circle the common factors of the pair of numbers, then answer the questions.

4 = 2 × 2 6 = 2 × 3	IPLE	6 = 2 × 3 9 = 3 × 3
The common prime factor is 2		The common prime factor is
The greatest common factor (GCF) is2		The greatest common factor (GCF) is
10 = 2 × 5 12 = 2 × 2 × 3		14 = 2 × 7 35 = 5 × 7
The common prime factor is		The common prime factor is
The greatest common factor (GCF) is		The greatest common factor (GCF) is

## PART 2. Greatest common factor can also be found by multiplying all the common prime factors.

18 = 2 × 3 × 3 12 = 2 × 2 × 3	20 = 2 × 2 × 5 30 = 2 × 3 × 5
The common prime factors are <b>2 and 3</b> .	The common prime factors are
The greatest common factor (GCF) is $2 \times 3 = 6$ .	The greatest common factor (GCF) is

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