## Greatest Common Factor Part 2

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

EXAMPLE: Find the greatest common factor of 24 and 18.

Step 1	Step 2	ANSWER
Find the prime factors of each number.	Find the common prime factors of 24 and 18.	The common prime factors of 24 and 18 are 2 and 3.
$24 = 6 \times 4$ $2 \times 3 \times 2 \times 2$ $18 = 6 \times 3$	24 = 2×3×2×2 18 = 2×3×3	The greatest common factor can be found by multiplying all the common prime factors.
2×3 × 3		Therefore, the greatest common factor of 24 and 18 is $2 \times 3 = 6$ .

 $\ensuremath{\texttt{Directions}}$  Find the greatest common factor of the numbers below.

30 = <u>3</u> × <u> </u>			
45 = <u>3</u> × <u>3</u> ×			
The common prime factors are	The greatest common factor (GCF) is		
36 = <u>3</u> × <u>2</u> × <u>2</u> × <u></u>			
42 = <u>7</u> × <u> </u>			
The common prime factors are	The greatest common factor (GCF) is		
120 = <u>2</u> × <u>3</u> × <u>5</u> ;	×		
100 = <u>2</u> × <u>5</u> × <u> </u>			
The common prime factors are	The greatest common factor (GCF) is		

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