## **4.2 Greatest Common Factor**

I can find the greatest common factor of two numbers.

## **Option One:**

Watch the videos, take notes on the handout, and complete your practice homework.

- 1. Watch the 2 videos and take notes on the note sheet.
  - a. <a href="http://www.virtualnerd.com/middle-math/number-theory-fractions/greatest-common-factor/greatest-common-factor-definition">http://www.virtualnerd.com/middle-math/number-theory-fractions/greatest-common-factor/greatest-common-factor/greatest-common-factor-definition</a>
  - b. <a href="https://learnzillion.com/lesson\_plans/7052-find-the-greatest-common-factor-of-two-numbers">https://learnzillion.com/lesson\_plans/7052-find-the-greatest-common-factor-of-two-numbers</a>
- 2. You will hand in your notes with your homework.

## **Option Two:**

Teacher led explanation and take notes.

- 1. Teacher will teach lesson and you will take notes.
- 2. You will hand in your notes with your homework.

Option One Note Sheet:	Name:	
Video 1: http://www.virtualnerd.com/middle-math/number-tor-definition	heory-fractions/greatest-common-	factor/greatest-common-fac
What is a factor?		
Factors of 16:	Factors of 18:	
What are the common factors of 16 and 18?		
Which is the GCF (greatest common factor) of 16  The Greatest Common Factor (GCF) is the		
or more		between
Factors of 24:	Factors of 18:	
What are the common (shared) factors of 24 and	18?	
Which of the common factors is the GREATEST of	common factor for 24 and 18?	

Factors of 9:	Factors of 20:
Common (shared) factors of 9 and 20?	
GCF (greatest common factor) of 9 and	20?
Video 2: https://learnzillion.com/lesson	_plans/7052-find-the-greatest-common-factor-of-two-numbers#
A prime numbers have	, and
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-	
Example of a prime number:	
Example of a prime number:  Composite numbers have  How do you find the GCF of 32 and 60?	
Example of a prime number:  Composite numbers have  How do you find the GCF of 32 and 60?  1 - List the factors for 32:	
Example of a prime number:  Composite numbers have  How do you find the GCF of 32 and 60?  1 - List the factors for 32:	
Example of a prime number:  Composite numbers have  How do you find the GCF of 32 and 60?  1 - List the factors for 32:  2 - List the factors for 60:	
Example of a prime number:	both 32 and 60 have in common?
Example of a prime number:  Composite numbers have  How do you find the GCF of 32 and 60?  1 - List the factors for 32:  2 - List the factors for 60:  3 - Compare the lists. Which factors do	both 32 and 60 have in common?