

## Vocabulary



A common factor is a number that is a factor of two or more numbers. The greatest of the common factors of two or more numbers is called the greatest common factor (GCF).

The least number that is a multiple of two or more whole numbers is the least common multiple (LCM) of the numbers.

Fill in the charts below.

GCF
" stands for:
greatest common tactor
Define:
· Greatest   avalst
· Common
same
· Factor a number multiplied to another number

LCM	
· stands for:	درا
least common?	
<u>multiple</u>	
Defines	
· Least Smallest	
· Common	
same	
· Multiple the product of a number and any	
range anappear	<i>(*)</i>

•Greatest Common Factor - largest same number that is a <u>factor</u> of two or more numbers.

•Least Common Multiple - smallest same number that is a <u>MUIT ple</u> of two or more numbers.

## 1.1 Factors and Multiples (6.NS.4)

## **Guided Practice**

Find the greatest common factor.

1.) 8, 32 GCF:8

2.) 24, 60 GCF: 12

3.) 3, 12, 18 GCF:3

5 x (12)

QXIU

3 12 18 1×3 1×12 1×18 2×6 2×9 3×4 3×6

Find the <u>least common multiple</u>.

4.) 7,9 [LCM: 63]

7: 7,14,21,28,35,42, 49, 56, (63)

9:9,18,27,36,45,54,

5.) 6, 15 | LCM: 00 30

6.) 9, 12, 15

6: 6,12,18,24,60, 36,42,48,5400 LCM: 1801

15:15(30),45,000

7.) The Movie House gives away a \$5 coupon for every 4 movies purchased. They give away a bag of popcorn for every 3 movies purchased. How many movies would you have to purchase in all before receiving both a \$5 coupon and a bag of popcorn at the same purchase? -  $\cup$   $\subset$   $\cap$ 

3: 3,6,9,12

4: 4.8,12

12 movies

Building on the Essential Question - In a word problem, how do you know if you are supposed to find the LCM or GCF?

\* If you are looking for the smallest amount (like above), you find the LCM.

\* If you are looking for the greatest amount,

Rate Yourself - Are you ready to move on? Shade the section that applies. Find the

YES (7) NO

GCF

T Rate yourself! U