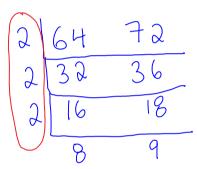
## Mathematics 9 GCF & LCM

## A. Greatest Common Factor (GCF)

The Greatest Common Factor is defined as **the largest number that divides evenly into two or more numbers.** When looking for the GCF for numbers we can use Prime Factorization to help us out.

What is the Greatest Common Factor for the following numbers?





$$GCF = 2 \times 2 \times 2$$
$$= 8$$

Find the Greatest Common Factor (GCF) for each pair of numbers.

$$GCF = 2 \times 2 \times 2$$
$$= [8]$$

$$GCF = 2 \times 2 \times 3$$

$$= \boxed{12}$$

## B. Least Common Multiple (LCM)

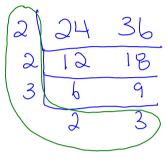
The Least Common Multiple is defined as **the smallest multiple that two numbers have in common**. When looking for the LCM we can use Prime Factorization to help us out.

What is the Lowest Common Multiple for the following numbers?

24

&

36



 $LCM = 2 \times 2 \times 3 \times 2 \times 3$  $= \boxed{72}$ 

Find the Least Common Multiple (LCM) for each pair of numbers.

1) 12 & 32

2 12 32 2 6 16 3 8

2) 15 & 25

5 15 25

LCM = 2 x 2 x 3 x 8

 $LCm = 5 \times 3 \times 5$  $= \boxed{75}$ 

Assignment: GCF & LCM Assignment #1 - 18

## Mathematics 9 GCF & LCM Assignment

- A. Find the GCF & LCM for each pair of numbers.
  - 1) 20 & 60

2) 24 & 48

- 3) 36 & 48
- 4) 45 & 60

- 5) 50 & 125
- 6) 18 & 48

- 7) 28 & 40
- 8) 60 & 75

9)	) 24 & 32	10) ·	18 &	& 30
1	1) 27 & 54	12)	16 8	<b>k</b> 80
1;	3) 16 & 40	14) 4	42 E	& 63
15	5) 16 & 36	16) 2	20 &	& 80
1	7) 32 & 80	18) {	54 8	<b>k</b> 90