

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

## Multiples vs Factors

Multiples

- found by skip counting  
or continuously adding

Factors

- divide evenly into a  
whole number

Multiples of 3 are:

3, 6, 9, 12, 15, 18...

Factors of 12 are:

1 × 12

2 × 6

3 × 4

1, 2, 3, 4, 6, 12

### Least Common Multiple (LCM)

⇒ the least common multiple of two numbers is the  
smallest number that is a multiple of both numbers.

Ex. What is the least common multiple between 3 and 4?

Multiples of 3: 3, 6, 9, 12, 15...

Multiples of 4: 4, 8, 12

The least common multiple between  
3 and 4 is 12.

### Greatest Common Factor (GCF)

⇒ the greatest common factor of two numbers is  
the greatest number that is a factor of both numbers.

Ex. What is the greatest common factor between 18 and 24?

Factors of 18

1 × 18

2 × 9

3 × 6

Factors of 24

1 × 24

2 × 12

3 × 8

4 × 6

The GCF between  
18 and 24 is 6.

## Practice

① What is the LCM between:

a) 4, 6, and 12

b) 8, 6, and 10

c) 4, 20, and 10.

d) 3, 5, and 6.

② What is the BCF between:

a) 8, 12, and 4.

b) 30, 26, and 8.

c) 50, 60, and 20

d) 18, 36, and 42