Basic Math Review

WS#20170129

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$0 \div 10 = ?$

$10 \div 0 = ?$

Prime Number

&

Composite Number

A Prime Number can be divided evenly only by 1 or itself. And it must be a whole number greater than 1.

Example: 7 can only be divided evenly by 1 or 7, so it is a prime number.

But 6 can be divided evenly by **1, 2, 3 and 6** so it is NOT a prime number (it is a **composite** number).

- When a number can be divided up evenly it is a **Composite Number**
- When a number can **not** be divided up evenly it is a **Prime Number**

So **6** is Composite, but **7** is Prime.

Example:

6 can be divided evenly by 2, or by 3:

$$6 = 2 \times 3$$

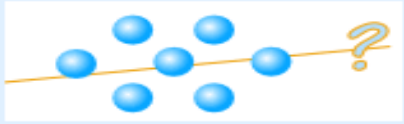
Like this:

divided into 2 groups

or

divided into 3 groups

But 7 cannot be divided up evenly:



Least Common Multiple (LCM)

Basic Math Review

A common multiple is a number that is a multiple of two or more numbers.

The common multiples of 3 and 4 are 0, 12, 24, ... The **least common multiple** (**LCM**) of two numbers is the smallest number (not zero) that is a multiple of both.

Multiples of 3:

0, 3, 6, 9, 12, 15, 18, 21, 24, ...

Multiples of 4:

0, 4, 8, 12, 16, 20, 24, 28 ...

The LCM of 3 and 4 is 12.

$$\frac{1}{6} + \frac{2}{9} = ?$$

$$1 + \frac{1}{6} + \frac{2}{9} + \frac{5}{12} = ?$$