## 1.5 Closure Property

Closure Property-Every pair of numbers chosen from a given set with a given operation results in a number from the given set.

Whole numbers - \{0,1,2,3,4...\}

addition - closed

Subtraction - not closed

multiplication - closed

division - not closed

over \frac{9}{5}

Integers - \$. -3, -2, -1, 0, 1, 2, 3...}

addition - closed

Subtraction - closed

Multiplication - closed

division - not closed oou = 3

Squaring - closed

Rational numbers - only number that can be

written as a fraction

addition - closed

Subtraction - closed

multiplication - closed

division - not closed

squaring - closed

**Real numbers** - any # that can be found on the # line Closed for  $+,-, \times$ , squaring

{-1,0,1} 
addition-not closed ooc | 1+1=2

subtraction-not closed ooc | 1-1=2

multiplication-closed

division-not closed

squaring-closed

## **HOMEWORK:**

Worksheet - HW 1.5 Properties 2