

A NUMBER WITH NO FRACTIONAL PART

# INTEGERS

ALL WHOLE NUMBERS, POSITIVE, ZERO AND NEGATIVE

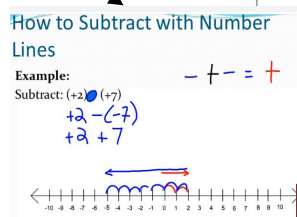
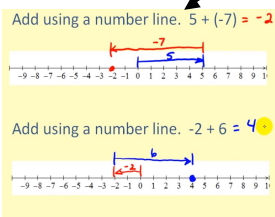
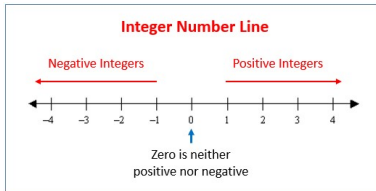
2.4, 56.8, 7888.9, -9.9, 567.8 ARE NOT INTEGERS

3,45,0,-6,-890,2,233 ARE INTEGERS

## Adding and Subtracting integers

## Dividing and Multiplying integers

If a number is positive move right on the number line and if the number is negative move left on the number line



### Add

#### Same Sign

Add and take the sign

$$(-3) + (-4) = -7$$

$$3 + 7 = 10$$

#### Different Sign

Subtract and take the sign of largest absolute value

$$(-5) + 9 = 4$$

$$(-13) + 8 = -5$$

### Subtract

Change to add the opposite

$$(-3) - (+4) = (-3) + (-4)$$

$$(-5) - (-9) = (-5) + (+9)$$

### Multiply/Divide

#### Same Sign

Positive answer

#### Different Sign

Negative answer

## RULES FOR INTEGERS ( SIGNED NUMBERS)

### ADDITION

$$+ \text{ and } + = +$$

$$- \text{ and } - = -$$

$$+ \text{ and } - = +$$

$$- \text{ and } + = -$$

### SUBTRACTION

**ADD THE OPPOSITE!**

(Change the subtraction sign to an addition sign.  
Change the sign of the second number.  
Now follow the Addition rules!)

### MULTIPLICATION AND DIVISION

$$+ \text{ and } + = +$$

$$- \text{ and } - = +$$

$$+ \text{ and } - = -$$

$$- \text{ and } + = -$$