

# Summary of Integer Rules ~

**Integers: whole #s & their opposites**  
**... -3, -2, -1, 0, 1, 2, 3, ...**

## Adding

### SAME SIGNS?

Add & keep sign

Ex1:  $-8 + -4 = -12$

Ex2:  $2 + 6 = 8$

### DIFFERENT SIGNS?

Ignore the signs

Subtract: "big #" - "small #"  
& keep sign of "big #"

Ex1:  $-9 + 2 = -7$

Ex2:  $-3 + 7 + 4$

## Subtracting

Change subtraction to  
addition of the opposite  
"Add a line, change the sign"

- Leave 1st # alone
- Change subtraction to addition
- Take opposite of 2nd #
- Follow addition rules

Ex1:  $-8 - 2 = -8 + -2 = -10$

Ex2:  $6 - 9 = 6 + -9 = -3$

Ex3:  $-3 - (-1) = -3 + 1 = -2$

Ex4:  $7 - (-2) = 7 + 2 = 9$

## Multiplying & Dividing

### 2 #s with same signs?

Answer - **POSITIVE**

Ex1:  $-5 \bullet -4 = 20$

Ex2:  $-56 \div -7 = 8$

### 2 #s with different signs?

Answer - **NEGATIVE**

Ex1:  $7 \bullet -9 = -63$

Ex2:  $-18 \div 2 = -9$