**Operations with Integers**

**Adding Integers**

If the signs are the same, add the numbers and keep the sign.

Examples: -4 + (-3) = -7 6 + 4 = 10

If the signs are different, subtract the numbers and keep the sign of the larger absolute value.

Examples: 2 + (-4) = -2 12 + (-8) = 4

**Subtracting Integers**

Change all subtraction problems to addition problems by adding the opposite. Then follow your addition rules.

Keep the first number the same, change subtraction to addition, and use the opposite of the second number.

Examples: -4 – 6 = 8 – (-2) =

 -4 + (-6) = 8 + 2 =

**Multiplying Integers**

If the signs are the same, the answer is positive.

Examples: 3 x 4 = 12 -6 x -4 = 24

If the signs are different, the answer is negative.

Examples: -5 x 3 = -15 8 x (-7) = -56

**Dividing Integers**

If the signs are the same, the answer is positive.

Examples: 12 ÷ 4 = 3 -24 ÷ -4 = 6

If the signs are different, the answer is negative.

Examples: -15 ÷ 3 = -5 56 ÷ (-7) = -8

Also, please remember that every fraction is a division problem (numerator divided by denominator).

Examples: $\frac{-1}{2}$ = -1 ÷ 2 $\frac{24}{8}$ = 24 ÷ 8