**2.1 – 2.3 Quiz**

**Study Guide**

**2.1: Real Numbers**

* **Order numbers from least to greatest:**

**Ex:** $0.5, -\frac{1}{2}, 1, 0, \frac{5}{2}$ **Ex:** $\frac{3}{2}, -0.25, -\frac{1}{5}, 2, 0$

$-\frac{1}{2}, 0, 0.5, 1, \frac{5}{2}$ $-0.25, -\frac{1}{5}, 0, \frac{3}{2}, 2$

* **Find opposites of numbers:**

**Ex:** Find: –*a* if *a* = – 7 **Ex:** Find: –*y* if *y* = 3.6

–*a* = 7 –*y* = –3.6

* **Find absolute value of numbers:**

**Ex**:  **Ex:  Ex: **

 12 – 4

 1.3 5 8

**Ex:  Ex:  Ex: **

$\left|-13\right|+5$ $\left|-2\right|$ $\left|-2+3\right|$

 13 + 5 2 $\left|1\right|$

 18 2 1

* **Classify numbers using “whole,” “integer,” and “rational”:**

**Classify each of the following numbers using all names that apply:**

**Ex:** – 5 **Ex:** 0.6 **Ex:** 175

Integer, Rational Rational Whole, Integer, Rational

**Ex:  Ex:  Ex:** 1463

Rational Rational Whole, Integer, Rational

**2.2: Add Integers**

* **Add numbers with the same signs:**

**Ex:  Ex:  Ex: **

–26 –55.7 $-\frac{8}{12}+\left(-\frac{3}{12}\right)$

 $-\frac{11}{12}$

* **Add numbers with different signs:**

**Ex:  Ex:  Ex: **

8 4.7 $-\frac{1}{5}$

**2.3: Subtract Integers**

* **Rewriting subtraction as adding a negative:**

**Ex:  Ex:  Ex: **

–30 –21.4 $\frac{81}{36}-\frac{20}{36}$

 $\frac{61}{36}=1\frac{25}{36}$

* **Subtract a negative number**

**Ex:  Ex:  Ex: **

 36 –3.4 –16