2.1 – 2.4, 2.6 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: $\frac{3}{2}, -0.25, -\frac{1}{5}, 2, 0$

- **Find opposites of numbers:**

Ex: Find: $-a$ if $a = -7$

Ex: Find: $-y$ if $y = 3.6$

- **Find absolute value of numbers:**

Ex: $|-1.3|$

Ex: $|5|$

Ex: $12 - |-4|$

Ex: $|7 - 20| + 5$

Ex: $|-3 + 1|$

Ex: $|4 - 6 + 3|$

- **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

Ex: $\frac{-26}{4}$

Ex: $0.6\overline{1}$

Ex: 1463

2.2: Add Integers

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

Ex: $-9+(-17)$ **Ex:** $-2+(-13)$ **Ex:** $-21.5+(-34.2)$

- **Add numbers with different signs:**

Ex: $-6+14$ **Ex:** $30+(-17)$ **Ex:** $8.2+(-3.5)$

2.3: Subtract Integers

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

Ex: $11-41$ **Ex:** $43-56$ **Ex:** $-18.2-3.2$

- **Subtract a negative number**

Ex: $15-(-21)$ **Ex:** $-9-(-5.6)$ **Ex:** $-33-(-17)$

2.4: Multiply Integers

Ex: $60(-3)$ **Ex:** $-24(-2)$ **Ex:** $15(3)$

Ex: $(-12)(-23)$ **Ex:** $(4)(-2)(-8)$ **Ex:** $(3)(-2)(-1)(-5)$

2.6: Divide Integers

Ex: $18\div(-3)$ **Ex:** $-24\div(-1.5)$ **Ex:** $-125\div(-25)$

Ex: $(-15)\div(-3)$ **Ex:** Evaluate: $xy-xz$ when $x=-2$, $y=3$ and $z=5$