**2.1, 2.5, 2.7 Quiz**

**Study Guide**

**2.1: Real Numbers**

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

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

* **Find opposites of numbers:**

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

* **Find absolute value of numbers and perform operations with absolute value:**

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

**Ex:  Ex:  Ex: **

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Rational** | **Irrational** | **Integer** | **Whole** |
| −5 |  |  |  |  |
| 0.6 |  |  |  |  |
| 175 |  |  |  |  |
| $$-\frac{26}{4}$$ |  |  |  |  |
| $$0.6\overbar{1}$$ |  |  |  |  |
| $$\sqrt{18}$$ |  |  |  |  |

**2.5: Apply the Distributive Property**

 **- Be able to use the distributive property and identify and combine like terms**

**Ex:  Ex: **

**Ex:  Ex:** 4 – 2(*x* – 3) – 3*x*

* **Be able to simplify division problems using the distributive property**

**Ex:  Ex:  Ex: **

**2.7: Find Square Roots and Compare Real Numbers**

**Ex: **= 49 **Ex:** $\pm \sqrt{100}$

**Ex:** −$\sqrt{3600}$

**Ex:** Estimate $\sqrt{101}$ between 2 integers

**Ex:** Estimate between 2 integers