

2.1, 2.5, 2.7 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: $\frac{3}{2}, -0.25, -\frac{1}{5}, 2, 0$

Ex: $-\frac{1}{5}, 6, -0.25, \sqrt{3}$

- **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: $|-1.3|$

Ex: $|5|$

Ex: $12 - |-4|$

Ex: $|7 - 20| + 5$

Ex: $|-3 + 1|$

Ex: $|4 - 6 + 3|$

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

	Rational	Irrational	Integer	Whole
-5				
0.6				
175				
$-\frac{26}{4}$				
$0.\overline{61}$				
$\sqrt{18}$				

2.5: Apply the Distributive Property

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

Ex: $(p - 3)(-8)$

Ex: $3(m + 5) - 10$

Ex: $6r + 2(r + 4)$

Ex: $4 - 2(x - 3) - 3x$

- Be able to simplify division problems using the distributive property

Ex: $\frac{6x-14}{2}$

Ex: $\frac{9z-6}{-3}$

Ex: $\frac{-24a-10}{-8}$

2.7: Find Square Roots and Compare Real Numbers

Ex: $x^2 = 49$

Ex: $\pm\sqrt{100}$

Ex: $-\sqrt{3600}$

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

Ex: Estimate $-\sqrt{72}$ between 2 integers