

Chapter 2 Practice Test

- 2.1** *I can graph and compare real numbers using a number line.*
I can find the opposite and the absolute value of a number in a real-life situation.
- 2.2** *I can add real numbers and solve real-life problems.*
- 2.3** *I can subtract real numbers and solve real-life problems.*

1) Graph the numbers on the number line in increasing order. Label each point.

$$-12.5, -17, |4.5|, |-5|$$



2) Find the sum or difference. Show your work.

2) _____

$$14 - (-9) + 3$$

3) Find the sum or difference. Show your work.

3) _____

$$-12 + |-10| - 6$$

- 4) You pick up your mom, stop by your aunt's and then go to the mall. Your mom lives 7 miles east of your house, your aunt lives 12 miles west of your house and the mall is 3.5 miles east of your aunt's. When you are at the mall, how far have you driven, and how far from your house are you? Show your equations.

2.5 I can multiply real numbers and solve real-life problems.

2.6 I can use the distributive property and I can simplify expressions by combining like terms.

2.7 I can divide real numbers and use division to simplify algebraic expressions.

1a) Find the product.

$$(-13)(-4)$$

1a) _____

1b) Simplify if possible.

$$7x - 2x$$

1b) _____

2a) Find the quotient.

$$\frac{-21x}{7}$$

2a) _____

2b) Simplify.

$$m(m^2 - 6m)$$

2b) _____

3) Evaluate the expression. Show your work.

$$\frac{2x - 4}{3y} \text{ when } x = 11 \text{ and } y = -3$$

3) _____

4a) You are in charge of ads for the yearbook. The area available on one page is 50 square inches. If you put four ads of the same size on one page, how much area does each ad receive? Show your work.

4b) You want to buy a Spartan hat, shorts, and t-shirt. The hat costs \$14.50 and the shorts are \$17.99. Let t represent the cost of the t-shirt. Since you live in New York, you will pay a 4% sales tax. Write an expression to show the total cost of buying all 3 items with the tax included. Show your work.