## Warm Up

9/4/18

1. Order the following from least to greatest:

0.5 0.375 0.550 0.555 0.555 -0.2,0.32,3/2,0.55,0.5

2. Simplify: 
$$|-10+8|-|3+9|$$

$$|-2|-||2|$$

$$|2-|2|$$

$$|2+|-|2|$$

$$|-10|$$

3. Simplify: 
$$|12 + 5| + |-4 + -3| - 1$$

$$| |7| + |-7| - |$$

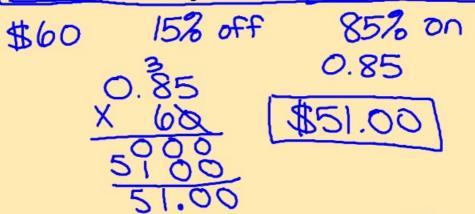
$$|7| + |7| - |$$

$$|24 - |$$

$$|23|$$

## Rational Number APPLICATION

\$60. There is a 15% sale going on and the jacket is on sale. How much will the jacket cost after the discount?



James buys a video game for his Xbox for \$49.99 a controller for \$34.95, and a walk through manual for \$19.99 The sales tax in his area is 8.25% What will be the total cost of his purchase?

A rectangular room has an area of  $(131 \, 1/4)$  square feet. The length of the room is  $(12 \, 1/2)$  feet what is the width of the room?  $A = l \omega$ 

131 ×4 524

Area | width | 
$$131\frac{1}{4} \div 12\frac{1}{2}$$
 |  $131\frac{1}{4} \div 12\frac{1}{2}$  |  $131\frac{1}{4} \div 12\frac{1}{4}$  |  $131\frac$ 

At a store Susan selected a pumpkin that weighed 35.2 ounces. Pumpkins cost \$1.80 per pound and there are 16 ounces in 1 pound. How much did Susan's pumpkin cost?

A recipe requires  $\frac{1}{4}$  lb of onions to make 3 servings of soup. Mark has  $1\frac{1}{2}$  lb of onions. How many servings can Mark make?

The price of a theater ticket increased from \$7.50 to \$7.75. The theater sold 315 tickets at the higher price. With the price increase, how much more did the theater earn on the tickets?

The distance from Charlotte, NC to Morgantown, WV is 376. 43 miles and the distance from Charlotte, NC to Columbus, OH is 426.5 miles. What is the difference in distance?

3426.50

- 376.43

50.07

The length of rectangular prism is 3/5 inches where the width of the same prism is 2 4/7 inches. If the volume of the prism is 4 53/70, what is the height of the prism?

V=lwh

$$V = lwh$$

$$\frac{3}{5} \cdot 2^{\frac{1}{7}} = \frac{3}{3} \cdot \frac{18}{70} = \frac{54}{35}$$

$$\frac{153}{70} \div \frac{54}{35} = \frac{333}{70} \div \frac{353}{54}$$

$$\frac{333}{70} \div \frac{54}{35} = \frac{333}{70} \times \frac{353}{108}$$

$$\frac{3}{12} \cdot 1$$