## UNIT 2: REAL NUMBERS REVIEW

Label each number as a whole number, an integer, or rational. Then put in order from least to greatest. (Section 2.1) 5.7  $\frac{57}{5} - \frac{5.1}{10}$   $\frac{57}{4} - \frac{5.1}{5}$   $\frac{1}{10}$   $\frac{15}{5} - \frac{3.1}{5}$   $\frac{1}{3}$   $\frac{1}{5}$   $\frac{1}{3}$   $\frac$ \_ 3 = integer, rational

= whole, integer, rational

= rational

49 = rational

\_ 3 . 1 = rational

-3<sup>2</sup> = rational

$$\frac{1}{5}\frac{1}{10}$$
 = rational

Perform the indicated operation. (Sections 2.2 and 2.3)

(If you start with a fraction, end with a fraction. If you start with a decimal, end with a decimal) Round to the nearest hundredth!

4. 4.5 + (+5.2)

20

7. 
$$4\frac{2}{3} + (-5)$$

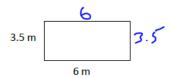
9.  $-40 \div (-5)$ 8 12. -2 - 913. 7 + (-15)-8

Simplify each expression. (Section 2.4)

15. 
$$6(3y-5)$$
 $18y-30$ 
 $18(3b-14-b)+10$ 
 $3h-1h-14$ 

## Application - Area and Perimeter, Domain and Range, Graph, Recipe

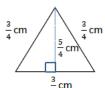
21. Find the area and perimeter of the rectangle. p = add up all the sides A = lw



Perimeter = 3.5+6+3.5+6= 19 m

Area = 3.5 (6) = 21m

22. Find the area and perimeter of the triangle. p = add up all the sides  $A = \frac{1}{2}bh$ 



Area =  $\frac{1}{2} \left( \frac{2}{4} \right) \left( \frac{5}{4} \right) = \frac{15}{32}$ 

Given the set of numbers in the domain below, use the function to find the range.

**Domain**  $\left\{-2.5, -\frac{3}{4}, 0, 4\right\}$ 

Range  $\{-1, \frac{5}{2}, 4, 12\}$ 

**Function** y = 4 + 2x

$$y = 4 + 2x 
 y = 4 + 2(4) 
 y = 4 + 2x 
 y = 4 + 2(4) 
 y = 4 + 3(4) 
 y = 4 +$$

$$y = 4 + 2x$$

$$9 = 4 + 2(0)$$

$$4 + 0$$

$$4$$

$$y = 4 + 2x$$
  
 $y = 4 + 2(4)$   
 $4 + 8$   
 $12$ 

24. Bob records his weight change for a month. What is his total change?



25. Mr. Kelly is reading Martha Stewart's Living magazine one day. He comes across a delicious recipe for refreshing strawberry lemonade. Mr. Kelly only wants to make half the recipe. Change the recipe so that it makes a half of batch of lemonade.

• 1.5 pints of strawberries 1,5(0.5)

•  $\frac{20}{9}$  teaspoons of sugar  $\frac{20}{9}$  ( $\frac{1}{2}$ )

• 10 tablespoons of lemon juice | 10 5 2

•  $4\frac{3}{4}$  liters of water  $\frac{19}{4}$ 

Divide by 2 or mulitply by one half!