Chapter 4

4-1 Solving Percent Problems. Date \_\_\_\_\_\_\_\_\_

Vocab: Percent -

 is -

 of -

* When working with percents,
* If an item is discounted x%, then
* If an item is marked up or taxed x%, then

Ex. 1) 7% of what number is 91?

Ex. 2) What % of 160 is 38.4?

Ex. 3) A dishwasher normally costs $320, but it is on sale for 15% off, what is the sale price?

4-2 Horizontal and Vertical Lines. Date \_\_\_\_\_\_\_\_\_

Vocab: Horizontal Line -

 Vertical Line -

Ex. 1) Graph and label the following.

 a. 

 b. 

 c. 

 d. 

Ex. 2) At the beginning of a Vacation, Josh has $900 in his savings account. As long as he has $300 in his account, he doesn’t have to pay a service fee. Each day he will withdraw $50. How many days can he withdraw money until he has to pay a fee?

4-3 Using Tables & Graphs to Solve. Date \_\_\_\_\_\_\_\_\_

Ex. 1) Acme Copiers offer a copier for $250 per month plus $.01 per copy. Best Printers offer a copier for $70 per month plus $.03 per copy. If you were to rent from Acme, how many copies would you need to make in order to break even with someone that rents from Best Printers?

 X Acme Best

4-4 Solving Ax + B = Cx + D. Date \_\_\_\_\_\_\_\_\_

Ex. 1) 

Ex. 2) 

Ex. 3) If the perimeter of the triangle is equal to the perimeter of the square, find the length of side A of the triangle.

3x

2x+3

3x+2

4x+7

C

B

A

4-5 Solving Ax + B < Cx + D. Date \_\_\_\_\_\_\_\_\_

Review: When do we flip the inequality sign?

 We should put the variable on what side of the inequality?

 Open circle is used for what symbols?

 Closed circle is used for what symbols?

Ex. 1)  Ex. 3) 

Ex. 2)  Ex. 4) 

4-6 Always & Never Situations. Date \_\_\_\_\_\_\_\_\_

What happens when the variable cancels out?

Look to see if the statement is true.

True False

Solution is all real #’s No Solution

Solve the following problems.

Ex. 1)  Ex. 2) 

Solve the following problems by graphing.

Ex. 3)  Ex. 4) 

4-7 Equivalent Formulas. Date \_\_\_\_\_\_\_\_\_

 F in terms of C, solved for F, C is the variable

Ex. 1) , solve for C.

Ex. 2) , solve for h.

h

Ex. 3) , is the equation of a line written in Standard Form, re-write in Slope-Intercept Form. (solve for y)

4-8 Compound Inequalities. Date \_\_\_\_\_\_\_\_\_

Vocab: Compound Sentence -

 + Notation -

What do the words And and Or mean?

 And – Intersection, if given two sets A and B,  and 

What is ?

Or – Union, if given two sets A and B,  and 

What is ?

Graph the following.

Ex. 1)  Ex. 2) 

Ex. 3) 

4-9 Solving Absolute Value Equations/Inequalities. Date \_\_\_\_\_\_\_\_\_

How to solve :

* If c is Positive, then  and 
* If c is Negative, then No Solution
* If c is Zero, then 

Ex. 1)  Ex. 2)  Ex. 3) 

Solving : Solving :

(c is positive) (c is positive)

 

Ex. 4)  Ex. 5)  Ex. 6) 