

**Algebra Assignment 2**

Name \_\_\_\_\_

**Real-life Applications Equations & Inequalities**

(3-1), (3-2), (4-5), (4-6), (4-7)

1. Two packages of meat have a combined weight of 5.75 kg. If one package weighs 3.28 kg, how much does the other package weigh?
2. A chef cooks  $1\frac{1}{2}$  potatoes for each serving of mashed potatoes. How many servings can he make from 18 potatoes?
3. A stack of 12 bricks is 27 in high. How high is each brick?
4. This season, Nora has 125 at bats in softball. She wants to have at least 140 at bats this season. What is the minimum number of at bats that needs to reach her goal?
5. A gallon jug of mild costs \$1.20. What is the greatest number of jugs of mild you can buy with \$6.00?
6. Suppose you earn \$7.50 for every lawn that you mow. You need to earn at least \$120 to pay for camp. How many lawns must you mow?
7. A computer repair bill was \$225. This included \$75 for parts and \$50 for each hour of labor. Find the number of hours of labor.
8. Suppose you have \$15 to plan a garden. If you spend \$6 on seeds, how many packs of vegetable plants could you buy for \$0.75 each?

9. You want to buy a bouquet of yellow roses and baby's breath for \$16. The baby's breath costs \$3.50 per bunch and the roses cost \$2.50 each. How many roses can you buy?
  
10. Suppose you want to buy a pair of pants and several pairs of socks. The pants cost \$24.95 and the socks are \$5.95 per pair. How many pairs of socks can you buy if you have \$50.00 to spend?
  
11. Doreen has started a part-time business making and selling bird feeders. Her equipment cost her \$75. If she makes a profit of \$6 on each bird feeder, how many must Doreen sell to make a total profit of more than \$135?
  
12. Suppose you want to order greeting cards. A box of greeting cards cost \$4.95. There is a shipping and handling fee of \$5.25 for the entire order. How many boxes of cards can you order if you want to spend no more than \$30.
  
13. The cost to rent a car is \$19.50 plus \$.25 per mile. If you have \$44 to rent a car, what is the greatest number of miles you can drive?