

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Algebra  
Unit 3  
HW 3-1

1) A candy company packages candy so that for every 8 red pieces there are 14 green pieces. If a package has 68 red pieces how many green pieces should be in there?

2) If potato chips have 90 calories (c) for every 2 grams (g) of fat present, show a table with 5 values that could represent calories and grams that fit this model and also draw a graph with g on the x axis.

3) If you are driving 52 mph and need to travel 182 miles, how many minutes will it take you to complete your trip?

4) Steve is running 12 ft/sec and Bob is running 10 ft/sec. Steve needs to cover 726 feet and Bob needs to cover 610 feet. Who will finish their journey first?

5) If you can buy 12.5oz for 22.5 cents or 13.5oz for 25.65 cents which has a cheaper unit rate?

6) Two companies sell low fat yogurt. Company A has 67.5 calories in 18oz and Company B has 84.7 calories in 22oz. Which yogurt is lower in fat content?

7) There are 12 inches in a foot and 3 feet in a yard. How many yards are there in 180 inches?

8) How close are a meter and a yard? Convert 1 meter into yards by using the fact that there are 100 centimeters in a meter, 2.54 centimeters in an inch, 12 inches in a foot, and 3 feet in a yard. Round your answer to the nearest tenth of a yard.

9) A high school track athlete sprints 100 yards in 15 seconds.

(a) Determine the number of feet per second the runner is traveling at. Show your work.

(b) If there are 5280 feet in a mile and 3600 seconds in an hour, determine the runner's speed in miles per hour. Round to the nearest tenth.