Ratio and Rates Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Show all your workings!

1) Sue is making smoothies for her friends. The recipe calls for 4 cups of ice, 1 cup of strawberries, 1 cup of bananas, 2 cups of yogurt and 2 cups of pineapple juice.

a) What is each ratio in lowest terms?

Bananas to Yogurt

Ice to Pineapple Juice

Strawberries to Bananas to Ice

b) What is the ratio of Ice and Strawberries to the total amount of ingredients? Write this ratio as a percent and a fraction?

c) If Sue uses 1 cup of yogurt instead of 2, how much ice does she need?

2) A car travels 34.7 km in just 22 minutes. What is the car’s speed, measured in km/h?

 (Hint: change minutes into hours first)

3) If it costs $33.12 to buy 48 cans of cola, how much does each can cost?

4) What is the missing value(s) in the ratios?

8 : S = 64 : 80 15 : 42 = 20 : w 12: 4 : x = y : 8 : 25

5) Explain two different ways to get ratios equivalent to 25:10:30.

6) In 10 games, Mary had three hits. How many games would she have to play to make 24 hits?

7) Bob is on a baseball team where the ratio of left-handed pitchers to right-handed pitchers is 2:5. If there are 20 pitchers on the team, how many will be right-handed?

8) Compare the two prices and decide which is the better buy?

 24 rolls for $7.49 OR 18 rolls for $5.20

9) Taylor is comparing prices of 3 different sizes of Laundry Detergent. Which is the better deal?

 1 L for $4.39 1.75 L for $6.30 3.50 L for $12.39