Name _____   Date _____

Homework #21 – Ratios, Rates and Unit Rate

<u>Write the following ratios in simplest form.</u>

1) There are 12 males and 20 females in a subway car.   2) A team won 8 games and lost 2 games.

a) Express the ratio of males to females.	a) Express the ratio of wins to losses.
b) Express the ratio of females to males.	b) Express the ratio of losses to total games played.
c) Express the ratio of females to total passengers.	c) Express the ratio of total games played to wins.

Classify each of the following as unit rates or not unit rates.

2) 3 apples to 2 oranges	3) $1.25 per minute
4) 23 miles per gallon	5) 6 pages in 2 minutes

Read each question carefully. Express each rate in the word problem as a fraction in words or in simplest form.

3) In a term paper, 16 pages of handwritten material produced 7 pages typed. What is the rate in words?

b) What is the rate in simplest form?

4) To make a certain grade of concrete, 2 bags of cement are mixed with 300 pounds of sand. What is the rate in words?

b) What is the rate in simplest form?

5) In the first 8 games of the season, all-star basketball player scored 168 points. What is the rate in words?

b) What is the rate in simplest form?

c) How many points did the player score per game?

6) A television commercial claims that 3 out of every 4 dentists prefer GRIN toothpaste. What is the rate in words?

b) What is the rate in simplest form?