Review

Ratios, Rates, and Proportions

1. The ratio of boys to girls in a class is 4 to 6. There are 16 boys in the class. How many girls are there?
2. One can of Dr. Pepper cost $0.50 in a vending machine. A 12-pack of Dr. Pepper costs $3.23 at the grocery store.

How much money would you save by purchasing a dozen cans of Dr. Pepper at the grocery store instead of a dozen at the vending machine?

1. Which size fountain drink gives you the best price per ounce?
   1. Small 6oz cup for $1.50
   2. Medium 12 oz cup for $2.65
   3. Large 16 oz cup for $4.25
   4. Extra Large 20 oz cup for $6.00
2. A class has 14 girls and 12 boys. Write a ratio for the situation in three ways, comparing the first quantity to the second.
3. Write the ratio in simplest form.
4. =
5. =
6. A vehicle travels 200 miles on 12 gallons of gas. At this rate, how far can the vehicle travel using 50 gallons of gas?
7. Find the unit rate: 300 mi. in 6 hrs.
8. Find the unit rate: 420 km in 8 hrs.
9. Jim sells 20 adult tickets, 42 student tickets, and 7 senior tickets for the movie theater. Write the ratio of senior tickets to adult tickets in three ways.
10. A basket ball player scored 203 points in 15 games. Express the player’s scoring rate as a unit rate rounded to the nearest thousandth.
11. A dozen oranges cost $3.25. At this rate, how much would 6 oranges cost?