

Review

Ratios, Rates, and Proportions

- 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?
 $\frac{4b}{6g} = \frac{16b}{?g}$ 24 girls
- 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?
 $\frac{1c}{50c} = \frac{12c}{?}$ \$2.77
- Which size fountain drink gives you the best price per ounce?
 - Small 6oz cup for \$1.50 .25
 - Medium 12 oz cup for \$2.65 .22
 - Large 16 oz cup for \$4.25 .27
 - Extra Large 20 oz cup for \$6.00 .3
- A class has 14 girls and 12 boys. Write a ratio for the situation in three ways, comparing the first quantity to the second.
14:12, 14 to 12, $\frac{14}{12}$
- Write the ratio in simplest form. $\frac{50in}{5ft}$ 10in/ft
- $\frac{5}{3} = \frac{?}{10}$ 16.6
- $\frac{6}{?} = \frac{16}{4}$ 1.5
- A vehicle travels 200 miles on 12 gallons of gas. At this rate, how far can the vehicle travel using 50 gallons of gas?
 $\frac{200mi}{12g} = \frac{?}{50g}$ 833.3 mi.
- Find the unit rate: 300 mi. in 6 hrs.
50mi/hr
- Find the unit rate: 420 km in 8 hrs.
52.5 km/hr

11. 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.

$$7:20, 7 \div 20, \frac{7}{20}$$

12. 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.

$$\underline{13.533} \text{ points per game}$$

13. A dozen oranges cost \$3.25. At this rate, how much would 6 oranges cost?

$$\frac{12^{\text{or}}}{\$3.25} = \frac{6^{\text{or}}}{\underline{\$1.63}}$$