

Name : _____ Score : _____

Teacher : _____ Date : _____

Ratios and Rates

Express each ratio as a fraction in the simplest form.

1) 6 blue cars out of 12 cars _____

2) 42 quarts to 72 quarts _____

3) 30 pennies to 60 pennies _____

4) 14 cups to 18 cups _____

5) 40 dimes to 48 dimes _____

6) 18 miles out of 30 miles _____

7) 25 gallons to 45 gallons _____

8) 36 beetles out of 48 insects _____

Express each phrase as a rate and unit rate.
(Round your answer to the nearest hundredth.)

Rate

Unit Rate

9) 8 dollars for 2 cans of tuna

10) 80 miles on 7 gallons of gas

11) 6 calculators cost \$155.00

12) 13 chocolate bars cost 21 dollars

13) 12 dollars for 4 books

14) 8 batteries cost 26 dollars

15) 7 inches of snow in 6 hours

16) 6 pencils for 12 dollars



Name : Answer Key

Score : _____

Teacher : _____

Date : _____

Ratios and Rates

Express each ratio as a fraction in the simplest form.

1) 6 blue cars out of 12 cars $\frac{6}{12} = \frac{1}{2}$

2) 42 quarts to 72 quarts $\frac{42}{72} = \frac{7}{12}$

3) 30 pennies to 60 pennies $\frac{30}{60} = \frac{1}{2}$

4) 14 cups to 18 cups $\frac{14}{18} = \frac{7}{9}$

5) 40 dimes to 48 dimes $\frac{40}{48} = \frac{5}{6}$

6) 18 miles out of 30 miles $\frac{18}{30} = \frac{3}{5}$

7) 25 gallons to 45 gallons $\frac{25}{45} = \frac{5}{9}$

8) 36 beetles out of 48 insects $\frac{36}{48} = \frac{3}{4}$

Express each phrase as a rate and unit rate.
(Round your answer to the nearest hundredth.)

9) 8 dollars for 2 cans of tuna

$$\frac{\$8}{2 \text{ cans}}$$

$$\frac{\$4.00 \text{ per can}}$$

10) 80 miles on 7 gallons of gas

$$\frac{80 \text{ mi}}{7 \text{ gal}}$$

$$11.43 \text{ mi per gal}$$

11) 6 calculators cost \$155.00

$$\frac{\$155}{6 \text{ calc}}$$

$$\frac{\$25.83 \text{ per calculator}}$$

12) 13 chocolate bars cost 21 dollars

$$\frac{\$21}{13 \text{ bars}}$$

$$\frac{\$1.62 \text{ per bar}}$$

13) 12 dollars for 4 books

$$\frac{\$12}{4 \text{ books}}$$

$$\frac{\$3.00 \text{ per book}}$$

14) 8 batteries cost 26 dollars

$$\frac{\$26}{8 \text{ batt}}$$

$$\frac{\$3.25 \text{ per battery}}$$

15) 7 inches of snow in 6 hours

$$\frac{7''}{6 \text{ hrs}}$$

$$1.17'' \text{ per hour}$$

16) 6 pencils for 12 dollars

$$\frac{\$12}{6 \text{ pencils}}$$

$$\frac{\$2.00 \text{ per pencil}}$$

