

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Ratios and Rates

Express each ratio as a fraction in the simplest form.

1) 30 miles out of 55 miles \_\_\_\_\_

2) 10 gallons to 12 gallons \_\_\_\_\_

3) 48 blue cars out of 54 cars \_\_\_\_\_

4) 6 quarts to 48 quarts \_\_\_\_\_

5) 12 dimes to 30 dimes \_\_\_\_\_

6) 3 cups to 12 cups \_\_\_\_\_

7) 24 beetles out of 72 insects \_\_\_\_\_

8) 2 pennies to 10 pennies \_\_\_\_\_

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

Rate

Unit Rate

9) 23 dollars for 8 books

\_\_\_\_\_

\_\_\_\_\_

10) 8 dollars for 2 cans of tuna

\_\_\_\_\_

\_\_\_\_\_

11) 13 chocolate bars cost 22 dollars

\_\_\_\_\_

\_\_\_\_\_

12) 110 miles on 6 gallons of gas

\_\_\_\_\_

\_\_\_\_\_

13) 4 inches of snow in 4 hours

\_\_\_\_\_

\_\_\_\_\_

14) 5 pencils for 16 dollars

\_\_\_\_\_

\_\_\_\_\_

15) 8 batteries cost 19 dollars

\_\_\_\_\_

\_\_\_\_\_

16) 6 calculators cost \$200.00

\_\_\_\_\_

\_\_\_\_\_



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## Ratios and Rates

Express each ratio as a fraction in the simplest form.

1) 30 miles out of 55 miles  $\frac{6}{11}$

2) 10 gallons to 12 gallons  $\frac{5}{6}$

3) 48 blue cars out of 54 cars  $\frac{8}{9}$

4) 6 quarts to 48 quarts  $\frac{1}{8}$

5) 12 dimes to 30 dimes  $\frac{2}{5}$

6) 3 cups to 12 cups  $\frac{1}{4}$

7) 24 beetles out of 72 insects  $\frac{1}{3}$

8) 2 pennies to 10 pennies  $\frac{1}{5}$

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

	Rate	Unit Rate
9) 23 dollars for 8 books	$\frac{23 \text{ dollars}}{8 \text{ books}}$	$\frac{2.88 \text{ dollars per book}}$
10) 8 dollars for 2 cans of tuna	$\frac{8 \text{ dollars}}{2 \text{ cans}}$	$\frac{4.00 \text{ dollars per can}}$
11) 13 chocolate bars cost 22 dollars	$\frac{22 \text{ dollars}}{13 \text{ chocolate bars}}$	$\frac{1.69 \text{ dollars per chocolate bar}}$
12) 110 miles on 6 gallons of gas	$\frac{110 \text{ miles}}{6 \text{ gallons}}$	$\frac{18.33 \text{ miles per gallon}}$
13) 4 inches of snow in 4 hours	$\frac{4" \text{ of snow}}{4 \text{ hours}}$	$\frac{1.00" \text{ of snow per hour}}$
14) 5 pencils for 16 dollars	$\frac{16 \text{ dollars}}{5 \text{ pencils}}$	$\frac{3.20 \text{ dollars per pencil}}$
15) 8 batteries cost 19 dollars	$\frac{19 \text{ dollars}}{8 \text{ batteries}}$	$\frac{2.38 \text{ dollars per battery}}$
16) 6 calculators cost \$200.00	$\frac{200 \text{ dollars}}{6 \text{ calculators}}$	$\frac{33.33 \text{ dollars per calculator}}$

