

Lesson 3 ~ Ratios

Name _____ Period _____ Date _____

Write each ratio as a fraction in simplest form.

1. $\frac{8}{12}$

2. 15 : 35

3. 8 to 4

Simplify each ratio. Write the ratio in all three forms.

4. 3 : 12

5. 9 to 24

6. $\frac{16}{36}$

7. 45 to 15

8. $\frac{60}{24}$

9. 18 : 81

10. Five out of 25 fish in a tank are goldfish.

- Write the ratio of goldfish to total fish in the tank.
- Write the ratio of goldfish to non-goldfish in the tank.

11. Thirteen students are wearing blue in a class of 21 students.

- Write the ratio of students wearing blue to all students in the class.
- Write the ratio of students not wearing blue to all students in the class.
- Write the ratio of students wearing blue to students not wearing blue in the class.

12. Six out of every 8 patients in a doctor's office are sick.

- Write the ratio of sick patients to all patients in the office.
- Write the ratio of well patients to all patients in the office.
- Write the ratio of sick patients to well patients in the office.

Order the following ratios from least to greatest.

13. $\frac{3}{4}$, 2 : 3, 5 to 6

14. 7 : 8, 9 to 10, $\frac{3}{4}$

Lesson 4 ~ Unit Rates

Name _____

Period _____

Date _____

Find each unit rate.

1. $\frac{200 \text{ miles}}{10 \text{ gallons}}$

2. $\frac{38 \text{ words}}{2 \text{ minutes}}$

3. $\frac{715 \text{ miles}}{55 \text{ hours}}$

4. $\frac{30 \text{ gallons}}{6 \text{ min}}$

5. $\frac{420 \text{ kilometers}}{7 \text{ hours}}$

6. $\frac{\$192}{8 \text{ people}}$

7. $\frac{36 \text{ miles}}{0.5 \text{ hours}}$

8. $\frac{\$125}{25 \text{ books}}$

9. $\frac{39 \text{ centimeters}}{26 \text{ seconds}}$

10. A store sells 2 dozen cookies for \$7.20. Find the price per cookie.

11. A fast food restaurant sells a medium 36-ounce drink for \$1.80. Find the price per ounce.

12. Ryder's car traveled 273 miles before running out of gas. The tank holds 13 gallons. How many miles per gallon does Ryder's car average?

13. Anna can buy 12 muffins for \$4.80 or 6 muffins for \$2.70. Which is the better deal? Explain using unit rates.