Name _____ Period _____ Date _____

Rates, Ratios, and Proportions Quiz Study Guide

Write each ratio as a fraction in simplest form.

1. 7th-grade boys to 6th-grade boys _____

2. 7th-grade girls to 6th-grade boys _____

3. 7th graders to 6th graders _____

4. boys to girls _____

5. girls to all students _____

	Boys	**Girls**
7th Grade	26	34
6th Grade	30	22

Find each unit rate.

6. 78 mi on 3 gal

7. $52.50 in 7 h

8. 416 mi in 8 h

9. A 64-ounce container of sports juice costs $6.50. A 48-ounce container of the same juice costs $4.25. Which size container is the better buy?

Solve each proportion.

10. $\dfrac{4}{r} = \dfrac{5}{20}$

11. $\dfrac{2}{9} = \dfrac{6}{k}$

12. $\dfrac{h}{35} = \dfrac{3}{7}$

13. $\dfrac{2.7}{3.0} = \dfrac{3.6}{x}$

Set up a proportion to solve. Be your to answer the question with a complete sentence.

14.   You can peel 4 potatoes in 10 minutes. How long will it take you to peel 14 potatoes?

15.   You can read 45 pages of your new book in 2 hours. How many pages can you read in 3 hours?

16.   Nine out of ten students prefer math class over lunch. How many students do not prefer math if 200 students were asked?

17.   You estimate that you can do 12 math problems in 45 minutes. How long should it take you to do 20 math problems?

18.   A girl makes 12 foul shots for every 8 that she misses. How many shots did she make if she shot 125 foul shots?

19.   The ratio of girls to boys in the 6th grade is 6 to 7. How many girls are there if there are 364 total students?