

Name: _____

Period: _____

Homework 8-1
Ratios & Unit Rates

Unit 8

Review. Solve each equation for x .

1. $4x = 24$

3. $-7x = -49$

2. $-3x = 15$

4. $\frac{x}{3} = 6$

Write each RATIO as a reduced fraction.

5. $12 : 28$

8. $20 \text{ to } 15$

11. $32 \text{ to } 46$

6. $15 \text{ to } 6$

9. $36 : 6$

12. $17 \text{ out of } 34$

7. $16 \text{ out of } 34$

10. $4 \text{ out of } 7$

For each situation, write a RATIO as a reduced fraction.

13. In A1, there are 15 girls for every 20 boys.

15. 86 out of every 100 students in Utah graduate from high school.

14. 2200 pounds of recycled paper saves 4,300 pounds of wood.

16. Orem uses 14,880,000 gallons of water every 6 hours in the summer.

Complete and use the table below for questions 13-15. For each situation, write a ratio as a reduced fraction.

17. Complete the table

<i>Class</i>	<i># of Boys</i>	<i># of Girls</i>	<i># of Students</i>
A2	18		28
A3		14	34
A4	20	16	

18. The number of boys in A2 to the number of girls in A4.

19. The number of boys in A3 to the number of students in A3.

20. The number of students in A4 to the number of girls in A2

Find each unit rate. If necessary, round to the nearest hundredth.

21. Tyler can bake 120 cookies in 3 hours

22. Gold sells for \$13,600 for 16 oz

23. Your body pumps 27.5 liters of blood every 10 minutes

24. In Utah, there are 82,000 people for every 2000 square miles

25. You hear about some great sales on pants at two local stores.

<u>STORE A</u> Sale!!! 3 pairs of pants for \$55

<u>STORE B</u> Sale!!! 2 pairs of pants for \$38

a. Find the ratio of dollars to pants for each store.

Store A:

Store B:

b. Convert each ratio identified in part (a) to a unit rate. Rounded to the nearest hundredth.

Store A:

Store B:

c. Which store has the better deal on pants.