
Worksheet 8-1
Ratios & Unit Rates

Unit 8

Write each **RATIO** as a reduced fraction.

1. 9:36

6. 3 out of 8

4. 10 to 25

2. 16 to 6

7. 36 to 48

5. 21:7

3. 12 out of 36

8. 15 out of 30

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

9. In A1, there are 18 girls for every 14 boys.

11. 90 out of every 100 students in Utah

graduate from high school.

10. 2000 pounds of recycled paper saves 3,700
pounds of wood.12. Orem uses 12,440,000 gallons of water
every 5 hours in the summer.

Complete and use the table below for questions 13-16. For each situation, write a ratio as a reduced fraction.

13. Complete the table

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

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

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

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

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KEY

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

17. Jamie sends 1,250 texts in 5 hours

18. Taylor runs 200 meters in 25 seconds

19. 48,000 pounds of pollution is filtered by 800 trees

20. Haley spends \$20 on 8 lip glosses

21. For each student, Alpine School District spends about \$5000 for 180 school days.

22. You hear about two great sales on candy bars.

STORE A

Sale!!!

12 Candy Bars for \$9.25

STORE B

Sale!!!

15 Candy Bars for \$11

- a. Find the ratio of dollars to candy bars 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 candy bars?

Worksheet 8-1**KEY**

1. $\frac{1}{4}$

2. $\frac{8}{3}$

3. $\frac{1}{3}$

4. $\frac{2}{5}$

5. $\frac{3}{1}$

6. $\frac{3}{8}$

7. $\frac{3}{4}$

8. $\frac{1}{2}$

9. $\frac{9}{7}$

10. $\frac{20}{37}$

11. $\frac{9}{10}$

12. $\frac{2,488,000}{1}$

13.

<i>Class</i>	<i># of Boys</i>	<i># of Girls</i>	<i># of Students</i>
A2		12	
A3	18		
A4			34

14. $\frac{8}{7}$

15. $\frac{9}{17}$

16. $\frac{17}{6}$

17. **250 texts per hour**

18. **8 meters per second**

19. **60 pounds per tree**

20. **2.50 dollars per lip gloss**

21. **27.78 dollars per day**

22. a. Store A: $\frac{9.25}{12}$ Store B: $\frac{11}{15}$

b. Store A: **0.77 dollars per candy bar**

Store B: **0.73 dollars per candy bar**

c. Store B