

Mrs.
Fowley



Promethean Board

DOOR

2/9

	Kyle Ethan
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Sirenytie Alary	Laura	
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	Megan Kailey
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Tyler	Jack	Ashton	
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	Andrae Naii
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Haylee	Cylin	
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** WE'RE BACK IN YOUR TEXTBOOK!**

1. Homework: Pg.102 #1-6, 11-21 odds, 24-28 evens, 29, & 31
- off to the side for now
2. 3.1 Review
3. Homework: 3.1 Puzzle Time (use to study for Monday's Quiz!)

Homework: Pg.102 #1-6, 11-21 odds, 24-28 evens, 29, & 31
- corrections in pen

1. **VOCABULARY** How can you tell when a rate is a unit rate?

It has a denominator of 1.

2. **WRITING** Why do you think rates are usually written as unit rates?

Unit rates are easier to compare.

3. **OPEN-ENDED** Write a real-life rate that applies to you.

Sample answer: A basketball player runs 10 feet down the court in 2 seconds.

Estimate the unit rate.

4. \$74.75



\$15 per gal

5. \$1.19



\$0.10 per fl oz

6. \$2.35



\$0.20 per egg

Write the ratio as a fraction in simplest form.

11. 25 to 45

$\frac{5}{9}$

13. 35 girls : 15 boys

$\frac{7}{3}$

15. 16 dogs to 12 cats

$\frac{4}{3}$

Find the unit rate.

17. 180 miles in 3 hours

60 mi/h

19. \$9.60 for 4 pounds

\$2.40 per lb

21. 297 words in 5.5 minutes

54 words per min

Use the table to find the rate.

24.

Days	0	1	2	3
Liters	0	1.6	3.2	4.8

amount
time

1.6 L per day

26.

Years	1	2	6	10	14
Feet	3.6	7.2	21.6	36	50.4

3.6 ft per yr

28. **POPULATION** In 2000, the U.S. population was 281 million people. In 2008, it was 305 million. What was the rate of population change per year?

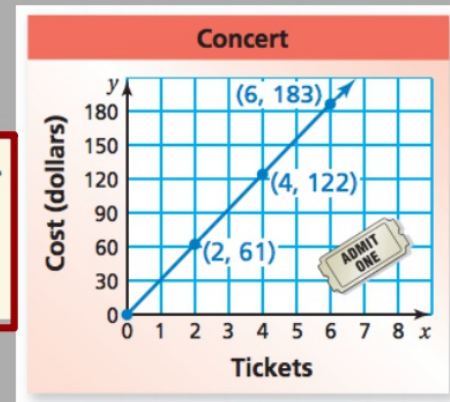
3,000,000 people per yr

$\frac{24,000,000}{8 \text{ yrs}}$

29. **TICKETS** The graph shows the cost of buying tickets to a concert.

- What does the point (4, 122) represent?
- What is the unit rate?
- What is the cost of buying 10 tickets?

- It costs \$122 for 4 tickets.
- \$30.50 per ticket
- \$305



31. **TENNIS** A sports store sells three different packs of tennis balls. Which pack is the best buy? Explain.

The 9-pack is the best buy at \$2.55 per container.



3.1 Review

- whiteboards, markers, and rags!

Find the product. List the units.

$$6 \text{ h} \times \frac{\$7}{\text{h}}$$

$$8 \text{ h} \times \frac{25 \text{ mi}}{\text{h}}$$

$$12 \text{ lb} \times \frac{\$2.50}{\text{lb}}$$

$$6 \text{ yr} \times \frac{35 \text{ in.}}{\text{yr}}$$

\$42

200 mi

\$30

210 in.

Write the ratio as a fraction in simplest form.

8 to 14

36 even : 12 odd

42 vanilla to 48 chocolate

$$\frac{4}{7}$$

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

$$\frac{7}{8}$$

Find the unit rate.

\$2.50 for 5 ounces

15 degrees in 2 hours

183 miles in 3 hours

$$\begin{array}{r} \$0.50 \\ \hline 1 \text{ oz} \end{array}$$

\$0.50 per ounce

7.5 degrees per hour

61 miles per hour

Use the table to find the rate.

Boxes	0	1	2	3
Pounds	0	30	60	90

Notebooks	0	5	10	15
Dollars	0	9.45	18.90	28.35

30 pounds per box

\$1.89 per notebook

A laser printer prints 360 pages in 30 minutes. What is the printing rate in pages per minute?

12 pages per minute

Are the two statements equivalent? Explain your reasoning.

- The ratio of boys to girls is 9 to 6.
- The ratio of girls to boys is 2 to 3.

$$\text{Yes; } \frac{\text{boys}}{\text{girls}} = \frac{9}{6} = \frac{3}{2} \text{ \& } \frac{\text{girls}}{\text{boys}} = \frac{2}{3}$$

- The ratio of flour to sugar is 8 to 3.
- The ratio of sugar to flour is 12 to 30.

$$\text{No; } \frac{\text{flour}}{\text{sugar}} = \frac{8}{3} \text{ \& } \frac{\text{sugar}}{\text{flour}} = \frac{12}{30} = \frac{2}{5}$$

There are 64 math teachers in 16 schools.
What is the ratio of math teachers to schools?

4 math teachers per school

The graph shows the cost of buying movies.

a. What does the point (2, 6) represent?

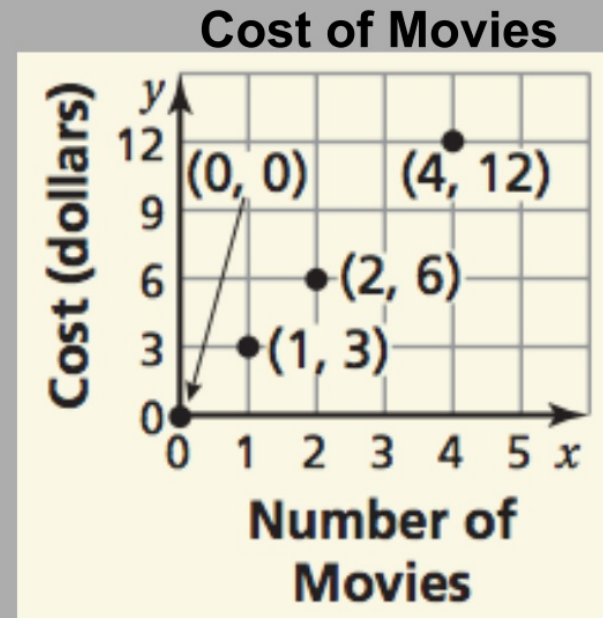
2 movies cost \$6

b. What is the unit cost?

\$3 per movie

c. What is the cost of 6 movies?

\$18



Homework: 3.1 Puzzle Time WS

- start together if time

- show all work on separate notebook paper

- due 2/12

What Do You Get If You Cross A Duck With A Firework?

Write the letter of each answer in the box containing the exercise number.

Find the product.

1. $4 \text{ tbsp} \times \frac{20 \text{ cal}}{\text{tbsp}}$

2. $3 \text{ lb} \times \frac{\$1.29}{\text{lb}}$

P. 5 cal Q. 80 cal R. 5 tbsp

E. \$0.43 F. \$3.87 G. 3.87 lb

3. $4 \text{ gal} \times \frac{17.5 \text{ mi}}{\text{gal}}$

4. $40 \text{ h} \times \frac{\$8.50}{\text{h}}$

C. 70 mi D. 35 mi E. 70 gal

T. 340 h U. \$340 V. \$300

Write the ratio as a fraction.

5. 12 to 36

6. 15 : 75

I. $\frac{1}{6}$ J. $\frac{1}{4}$ K. $\frac{1}{3}$

E. $\frac{1}{5}$ F. $\frac{1}{4}$ G. $\frac{1}{3}$

7. 10 out of 25

8. 52 males to 28 females

E. $\frac{2}{5}$ F. $\frac{1}{5}$ G. $\frac{1}{25}$

P. $\frac{27}{14}$ Q. $\frac{7}{13}$ R. $\frac{13}{7}$

Find the unit rate.

9. 48 cups in 12 quarts

R. $\frac{4 \text{ c}}{\text{qt}}$

S. $\frac{3 \text{ c}}{\text{qt}}$

T. $\frac{2 \text{ c}}{\text{qt}}$

10. \$17.85 for 3 pounds

A. $\frac{\$5.95}{\text{lb}}$

B. $\frac{\$5.56}{\text{lb}}$

C. $\frac{\$3.65}{\text{lb}}$

11. 26.2 miles in 4 hours

A. $\frac{6.55 \text{ mi}}{\text{h}}$

B. $\frac{7.5 \text{ mi}}{\text{h}}$

C. $\frac{6.5 \text{ mi}}{\text{h}}$

12. \$12.60 for 3 boxes

G. $\frac{\$3.15}{\text{box}}$

H. $\frac{\$4.15}{\text{box}}$

I. $\frac{\$4.20}{\text{box}}$

What Do You Get If You Cross A Duck With A Firework?

10		2	12	8	6		1	4	11	3	5	7	9
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