### Sixth Grade Math Vocabulary SOL 6.2 - Ratios

$$\frac{5}{9} = \frac{10}{18}$$
 5:9 = 10:18

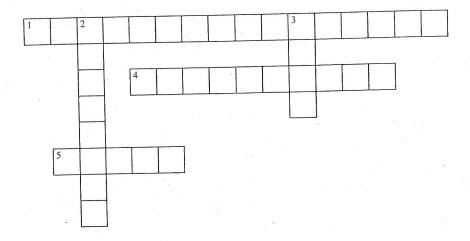
$$\frac{3}{4}=\frac{6}{8}$$

#### Unit Rate: A rate in which the second term is 1. 5.

unit rate: 
$$\frac{\$3.28}{20 \text{ oz}} = \frac{\$3.28 \div 20}{20 \text{ oz} \div 20} = \frac{\$0.16}{1 \text{ oz}}$$

Name:	Number:
Name.	- S

# Vocabulary – Crossword SOL 6.2 – Ratios



#### **ACROSS**

- 1 Ratios that make the same comparisons.
- 4 A number sentence or an equation that states that two ratios are equivalent.
- 5 A comparison of two numbers or quantities.

#### **DOWN**

- 2 A rate in which the second term is 1.
- **3** A ratio that compares two quantities having different units of measure.

Name	
Date	
Class Period	1

### S.O.L. 6.2 Vocabulary Quiz

### Equivalent Ratios Rate Ratio Unit Rate Proportion A number sentence or an 1. equation that states two ratios are equivalent. A comparison of two 2. numbers or quantities. Ratios that make the 3. same comparisons. A rate in which the 4. second term is 1. A ratio that compares 5. two quantities having different units of measure.

Name _		Date	Class	12356
		6.2 Who Am Vocabulary Q		
Ratio	Unit Rate	Proportion	Equivalent Ratio	o Rate
	vision. I can be		ers or quantities by e different ways. V -	
2. I a	am a number se	entence or an eq	uation that states t	WO

ratios are equivalent. You didn't talk about me as much

but I can help you find the missing value. Who am I?

3. I am a ratio that makes the same comparisons. You can

4. I am a comparison of two quantities that have different

1. You have to divide each of my terms. Who am I?

units of measures. Who am I?

multiply or divide me and get three equal answers. Who

5. I am a type of rate in which the second term will always be

Name: Date:
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## 6.2 Ratios Tutorial Worksheet

Directions: As you watch the futorial vide	eo, fill in the blanks for questions 1-7.
	2. There are 3 ways to write a ratio:
1. A ratio is a between two items.	4 to 15 $\frac{4}{15}$ 4:15
1.71 14410 10 4	Ratios are always spoken in the same way no matter how they are written. We say "" between the numbers.
There are 8 boys and 12 girls in a class.  3. What is the ratio of boys to girls?  4. What is	s the ratio of girls to the total number of students?
	$\frac{\text{\# of girls}}{\text{total students}} \frac{8}{(8+12)} = \text{ (reduce)} =$
5. When you write ratios, it is ok to leave it as an	fraction.
6. What is the ratio of circles to triangles?	
7. The item that is asked for first is written	
Once the tutorial is complete, t	ry problems 1- 6 on your own.
1. Mrs. Johnson's class has 9 girls and 13 boys.	2. Suzie has 4 pet fish and 2 pet turtles.
is Constinue form	
Write your answers in fraction form.	Write your answers in fraction form.
Write your answers in fraction form.  What is the ratio of boys to girls?	Write your answers in fraction form.  What is the ratio of fish to turtles?
Write your answers in fraction form.  What is the ratio of boys to girls?  What is the ratio of boys to the whole class?	What is the ratio of fish to turtles?  What is the ratio of fish to total pets?
What is the ratio of boys to girls?  What is the ratio of boys to the whole class?  3. Mr. Smith has 8 markers and 6 colored pencils to use for	What is the ratio of fish to turtles?
What is the ratio of boys to girls?  What is the ratio of boys to the whole class?	What is the ratio of fish to turtles?  What is the ratio of fish to total pets?  4. Billy's mom brought candy for Billy and his friends.
What is the ratio of boys to girls?  What is the ratio of boys to the whole class?  3. Mr. Smith has 8 markers and 6 colored pencils to use for drawing his poster.	What is the ratio of fish to turtles?  What is the ratio of fish to total pets?  4. Billy's mom brought candy for Billy and his friends. She has 15 tootsie rolls and 5 lollipops.
What is the ratio of boys to girls?  What is the ratio of boys to the whole class?  3. Mr. Smith has 8 markers and 6 colored pencils to use for drawing his poster.  What is the ratio of markers to colored pencils?  ———————————————————————————————————	What is the ratio of fish to turtles?  What is the ratio of fish to total pets?  4. Billy's mom brought candy for Billy and his friends. She has 15 tootsie rolls and 5 lollipops.  What is the ratio of lollipops to tootsie rolls?
What is the ratio of boys to girls?  What is the ratio of boys to the whole class?  3. Mr. Smith has 8 markers and 6 colored pencils to use for drawing his poster.  What is the ratio of markers to colored pencils?	What is the ratio of fish to turtles?  What is the ratio of fish to total pets?  4. Billy's mom brought candy for Billy and his friends. She has 15 tootsie rolls and 5 lollipops.  What is the ratio of lollipops to tootsie rolls?  ——————————————————————————————————

#### Lesson 10-1

Example 1 Write a Ratio in Simplest Form

MARBLES A collection of marbles has 8 blue marbles and 6 green marbles. Write
the ratio that compares the number of blue marbles to the number of green
marbles.

blue marbles 
$$\rightarrow$$
  $\frac{8}{6} = \frac{8 \div 2}{6 \div 2} = \frac{4}{3}$   $\leftarrow$  The GCF of 8 and 6 is 2.

The ratio of blue marbles to green marbles is  $\frac{4}{3}$ , 4 to 3, or 4:3.

For every 4 blue marbles, there are 3 green marbles.

Example 2 Use Ratios to Compare Parts of a Whole BALLS A large bin of balls in the equipment room of the gym contains 20 balls, 5 of which are soccer balls. Write the ratio that compares the number of soccer balls to the total number of balls.

soccer balls 
$$\rightarrow$$
  $\frac{5}{20} = \frac{5 \div 5}{20 \div 5} = \frac{1}{4}$   $\leftarrow$  The GCF of 5 and 20 is 5.

The ratio of soccer balls to the total number of balls is  $\frac{1}{4}$ , 1 to 4, or 1:4.

For every one soccer ball, there are four total balls.

Example 3 Find Unit Rate

CEREAL A 16-ounce box of cereal is priced at \$3.68. Find the cost per ounce.

$$\frac{\$3.68}{16 \text{ ounces}} = \frac{\$3.68 \div 16}{16 \text{ ounces} \div 16} = \frac{\$0.23}{1 \text{ ounce}}$$
 Divide the numerator and denominator by 16.

So, the cost of one ounce of the cereal is \$0.23.







## The Skittle Sort Activity

Name	_
Class Period	_
Date	

Skittle Flavors	Number of Skittles
Grape (purple)	
Lemon (yellow)	
Orange (orange)	
Strawberry (red)	
Lime (green)	

Sort the Skittles into the correct category. Write the ratio in three ways.

1. (	Grape to Lemon	Grape to Orange	Grape to Strawberry	Grape to Lime
2.	Lemon to Grape	Lemon to Orange	Lemon to Strawberry	Lemon to Lime
3.	Orange to Grape	Orange to Lemon	Orange to Strawberry	Orange to Lime

Date	C	lass	
Name Date			*
IESSON Practice A			
Ratios and Rates			
Use the table to write each ratio.	Carolin	ie's Pet Fi	eh
1. angel fish to tiger barbs			5
2. red-tail sharks to clown loaches	Tiger Barbs Catfish	<u>'                                      </u>	1
	Angel fish		4
3. catfish to angel fish	Red-tail sha	arks	<u>-</u> -
4. clown loaches to tiger barbs	Clown loac		3
5. catfish to red-tail sharks	Oloviii loas		
6. Write three equivalent ratios to compare the number of black triangles in the picture with the total number of triangles.			
and rotio			
Use the table to write each ratio.	,		
7. gray male kittens to gray female kittens	Carol	line's Kitt	ens Gray
	DA-1-	3	2
8. white female kittens to white male kittens	Male	5	5
	Female	J	

9. A candy store sells 2 ounces of chocolate for \$0.80 and
3 ounces of chocolate for \$0.90. How much does the store
charge per ounce for the 2 ounces of chocolate? How much
charge per ounce for the 2 ounces of chocolate?
does the store charge per ounce for the 3 ounces of chocolate?
Which is the better deal?

Name	 ta :	 Date	Class	
Name				

### LESSON

### LESSON Practice B

### In Ratios and Rates

Use the table to write each ratio.

- 1. lions to elephants \_\_\_\_\_
- 2. giraffes to otters \_\_\_\_\_
- 3. lions to seals \_\_\_\_\_
- 4. seals to elephants \_\_\_\_\_
- 5. elephants to lions \_\_\_\_\_
- 6. Write three equivalent ratios to compare the number of diamonds with the number of spades in the box.

Animals in the Zoo			
Elephants	12		
Giraffes	8		
Lions	9		
Seals	10		
Otters	16		













Use the table to write each ratio as a fraction.

- 7. Titans wins to Titans losses \_\_\_\_\_
- 8. Orioles losses to Orioles wins \_\_\_\_\_
- 9. Titans losses to Orioles losses \_\_\_\_\_
- 10. Orioles wins to Titans wins \_\_\_\_\_

Base	eball Team	Stats	
	Titans	Orioles 9	
Wins	12		
Losses	14	15	

- 11. A 6-ounce bag of raisins costs \$2.46. An 8-ounce bag of raisins costs \$3.20. Which is the better deal?
- 12. Barry earns \$36.00 for 6 hours of yard work. Henry earns \$24.00 for 3 hours of yard work. Who has the better hourly rate of pay?

# LESSON Ratios and Rates



### **Lesson Objectives**

Write ratios and rates and find unit rates

Vocabulary			
ratio (p. 352)			
equivalent ratios (p. 352)		· · · · · · · · · · · · · · · · · · ·	
rate (p. 353)			
unit rate (p. 353)			
Additional Examples  Example 1		(	
Use the table to write each	ch ratio.		
	Animal	s at the Vet	
	Cats Dogs	5 7	
	Rabbits	2	
A. cats to rabbits			
or			to
B. dogs to total number of	of pets		
or	or	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to
C. total number of pets to	cats		
or	or		to



JAME	DATE	PERIOD

### Practice: Skills

### Ratios

Write each ratio as a fraction in simplest form.

- 1. 3 sailboats to 6 motorboats
- 2. 4 tulips to 9 daffodils
- 3. 5 baseballs to 25 softballs
- 4. 2 days out of 8 days

5. 6 poodles out of 18 dogs

- 6. 10 yellow eggs out of 12 colored eggs
- 7. 12 sheets of paper out of 28
- 8. 18 hours out of 24 hours

9. 16 elms out of 20 trees

10. 15 trumpets to 9 trombones

11. 5 ducks to 30 geese

12. 14 lions to 10 tigers

- 13. 6 sodas out of 16 drinks
- 14. 20 blue jays out of 35 birds

Write each ratio as a unit rate.

15. 14 hours in 2 weeks

16. 36 pieces of candy for 6 children

17. 8 teaspoons for 4 cups

18. 8 tomatoes for \$2

19. \$28 for 4 hours

20. 150 miles in 3 hours

21. \$18 for 3 CDs

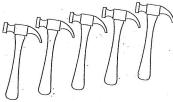
- 22. 48 logs on 6 trucks
- 23. Write the ratio 21 wins to 9 losses as a fraction in simplest form.
- 24. Write the ratio \$12 dollars for 3 tickets as a unit rate.

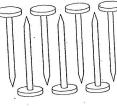
# Practice 7-1 Exploring Ratios

Write a ratio in three ways to compare each.









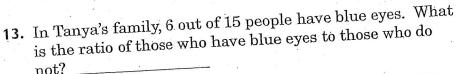
- 1. saws to pliers
- 2. hammers to nails
- 3. saws to nails

- 4. nails to saws
- 5. hammers to pliers
- 6. pliers to saws

- 7. pliers to nails
- 8. saws to hammers
- 9. nails to hammers

Draw a picture to represent each ratio.

- **10.** 7 baseballs : 1 bat
- 11. 3 CDs to 8 books
- 12.  $\frac{2 \text{ c blueberries}}{3 \text{ c cream}}$



- 14. In Fred's class, 8 of the 21 students earned a grade of B or better. What is the ratio of students who did not earn at least a B to those who did?
- 15. In Todd's class, 14 of the students own cats and 9 of the students own dogs. What is the ratio of dog owners to cat owners?
- 16. In Markita's class, there are 15 boys and 12 girls. Write the ratio that represents the number of girls to the number of boys.

Name	Date	Class	

### **LESSON** Reteach

### Ratios and Rates

A ratio is a comparison of two quantities by division.

To compare the number of times vowels are used to the number of time consonants are used in the word "mathematics," first find each quantity.

Number of times vowels are used: 4 Number of times consonants are used: 7

Then write the comparison as a ratio, using the quantities in the same order as they appear in the word expression. There are three ways to write a ratio.

4 to 7

4:7

### Write each ratio.

- 1. days in May to days in a year
- 2. sides of triangle to sides of a square

Equivalent ratios are ratios that name the same comparison. The ratio of inches in a foot to inches in a yard is  $\frac{12}{36}$ . To find equivalent ratios, divide or multiply the numerator and denominator by the same number.

$$\frac{12}{36} = \frac{12 \div 3}{36 \div 3} = \frac{4}{12} \qquad \qquad \frac{12}{36} = \frac{12 \cdot 2}{36 \cdot 2} = \frac{24}{72}$$

$$\frac{12}{36} = \frac{12 \cdot 2}{36 \cdot 2} = \frac{24}{72}$$

So,  $\frac{12}{36}$ ,  $\frac{4}{12}$ , and  $\frac{24}{72}$  are equivalent ratios.

Write three equivalent ratios to compare each of the following.

3. 8 triangles to 12 circles

4. 20 pencils to 25 erasers

5. 5 girls to 6 boys

6. 10 pants to 14 shirts

Vame	Date	Class
Reteach	*	
75 Ratios and Rates (c	ontinued)	
A rate is a comparison of two quantum of measure.	antities that have different uni	ts
Suppose a bus travels 150 miles written as $\frac{150 \text{ miles}}{3 \text{ hours}}$ .	in 3 hours. The rate could be	
When the second term of a rate in To write 150 miles hours as a unit		
$\frac{150 \text{ miles}}{3 \text{ hours}}$ $\frac{150 \text{ miles}}{3 \text{ hours}}$ $= \frac{150 \text{ miles} \div 3}{3 \text{ hours} \div 3}$ $= \frac{50 \text{ miles}}{1 \text{ hour}}$ The unit rate is $\frac{50 \text{ miles}}{\text{hour}}$ .		
7. 40 books 2 shelves	8. 36 students 6 groups	
9. 300 seconds 5 minutes	10. 54 miles 2 gallons	
11. 4 miles 20 minutes	12. \$1.29 3 pounds	
13. 72 hours 3 days	14. 42 trading car 6 packs	rds_

## Reteaching 7-1 Exploring Ratios

A ratio compares two numbers by division.



The ratio of 10 pints of blueberries to 4 blueberry pies can be written as "10 to 4" in three ways: 10 to 4  $\frac{10}{4}$ 

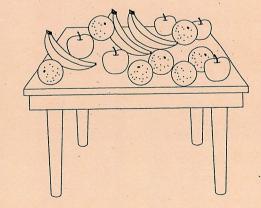




The ratio of 2 bushels of apples to 20 jars of applesauce can be written in three ways: 2 to 20 2:20  $\frac{2}{20}$ 

### Use the picture. Write a ratio in three ways to compare each.

- 1. apples to oranges
- 2. apples to bananas \_\_\_\_\_
- 3. oranges to apples \_\_\_\_\_
- 4. bananas to oranges \_\_\_\_\_
- 5. oranges to bananas \_\_\_\_\_
- 6. bananas to apples \_\_\_\_\_



### Write a ratio in three ways for each statement.

- 7. There are 60 tires for every 15 cars.
- 8. Use 5 teaspoons butter for every 3 teaspoons flour.
- 9. There are 21 girls and 28 boys in the class.
- 10. Make 24 tacos for every 8 plates.
- 11. There are 4 adults for every 19 children on the bus.

### Try This

1. Use the table to write the ratio.

birds to total number of pets

Animals a	t the Vet
Birds	6
Hamsters	9
Snakes	3

2. Write three equivalent ratios to compare the number of triangles to the number of hearts in the pattern.



3. A 3-pack of juice boxes costs \$2.10. A 9-pack costs \$5.58. Which is the better deal?

Name	

Date

### SOL 6.2 - Ratios

Marco's mother bought him a bag of blow pops from Wal\*Mart. The chart below shows the flavors Marco found in the bag. Use this chart to answer questions 1-3.

**Blow Pops** 

Flavor	Number of Blow Pops
Cherry	3
Grape	2
Watermelon	5
Green Apple	4

- Based on the chart, what is the ratio of Grape to Green Apple Blow Pops?
  - A 2 to 4.

**B** 2 to 5

**C** 4 to 2

- **D** 3 to 4
- 2. What is the ratio of Cherry Blow Pops to the total number of Blow Pops in the bag?
  - **A** 3:5

**B** 3:14

**C** 14:3

- **D** 5:3
- 3. What is the ratio of Green Apple to Watermelon Blow Pops?
  - **A** 4 to 3

**B** 5 to 4

**C** 3 to 4

**D** 4 to 5



- 4. Based on the picture above, what is the ratio of pens to pencils?
  - **A** =  $\frac{5}{9}$

 $\mathbf{B} = \frac{4}{9}$ 

 $\mathbf{c} = \frac{4}{5}$ 

- $\mathbf{D}_{=} \qquad \frac{5}{4}$
- 5. City Auto Supply has lawnmowers for sale. They have 4 riding mowers and 7 push mowers. What is the ratio of push mowers to riding mowers?
  - **A**  $\frac{7}{4}$

**c**  $\frac{4}{7}$ 

 $\mathbf{D} = -\frac{7}{11}$ 

1. There are 15 blue socks and 12 white socks in a drawer. What is the ratio of white socks to blue socks?

**A** 
$$\frac{15}{12}$$

**B** 
$$\frac{15}{27}$$

**c** 
$$\frac{12}{27}$$

**D** 
$$\frac{12}{15}$$

2. John has 14 pennies and 10 dimes in his pocket. What is the ratio of pennies to dimes?

3. Jules' teacher gives out stars for good behavior. Jules has gotten 12 gold stars and 17 silver stars. What is the ratio of silver stars to gold stars?

Student Birthdays

Month	Number of Students
January	3
February	5
March	4

4. According to the table above, what is the ratio of the number of students that have birthdays in January to the number of students that have birthdays in March?

Student Rirthdays

Month	Number of Students	
	1 damper of occurred	
January	3	
February	5	
March	4	

According to the table above, what is the ratio of the number of 5. students that have birthdays in February to the number of students that have birthdays in January?

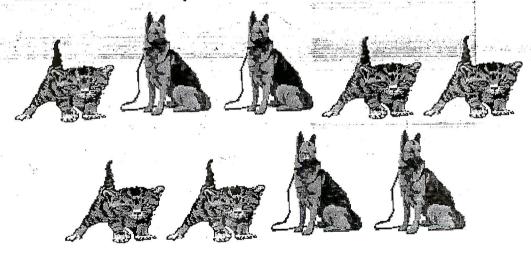
**A** 
$$\frac{3}{5}$$
 **B**  $\frac{5}{8}$ 

$$\mathbf{B} \qquad \frac{5}{8}$$

$$\mathbf{C} \cdot \frac{5}{3}$$

$$\frac{1}{8}$$

The picture below shows the number of dogs and cats in the animal shelter in Emporia.



Based on this picture, what is the ratio of the number of dogs to the number of cats in the shelter?

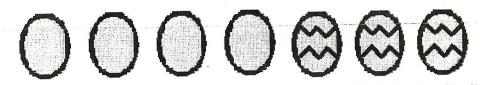
9 to 4

9 to 5

4 to 5 C

5 to 4

7. John's little sister decorated Easter eggs. Some of the eggs were solid and some of the eggs were striped.



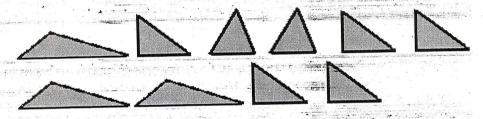
Based on the picture above, what is the ratio of striped eggs to solid eggs?

**A** 4:7

3:4

**C** 4:3

**D** 3:7



- 8. Based on the picture above, what is the ratio of right triangles to obtuse triangles?
  - $\mathbf{A} \qquad \frac{3}{5}$

 $\frac{1}{4}$ 

**c**  $\frac{5}{2}$ 

- **D**  $\frac{5}{3}$
- 9. Alicia has written 6 poems and 8 short stories for English class. What is the ratio of short stories to poems?
  - **A** 6 to 14

**B** 6 to 8

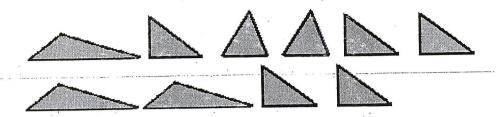
**c** 8 to 14

**D** 8 to 6

Name

Date

### SOL 6.2 - Ratios



- 10. Based of the picture above, what is the ratio of acute triangles to obtuse triangles?
  - $\mathbf{A} = \frac{2}{3}$
  - **c**  $\frac{3}{5}$

- $\mathbf{B} \qquad \frac{3}{2}$
- $\mathbf{D}$   $\frac{2}{5}$

# Study Guide and Intervention

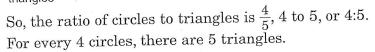
### Ratios

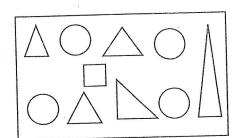
A ratio is a comparison of two numbers by division. A common way to express a ratio is as a fraction in simplest form. Ratios can also be written in other ways. For example, the ratio  $\frac{2}{3}$  can be written as 2 to 3, 2 out of 3, or 2:3.

Refer to the diagram at the right.

Write the ratio that compares the number of circles to the number of triangles.

circles  $\rightarrow \frac{4}{5}$  The GCF of 4 and 5 is 1. triangles  $\rightarrow \frac{5}{5}$ 





Write the ratio that compares the number of circles to the total number of figures.

circles  $\rightarrow \frac{4}{10} = \frac{2}{5}$  The GCF of 4 and 10 is 2.

The ratio of circles to the total number of figures is  $\frac{2}{5}$ , 2 to 5, or 2:5. For every two circles, there are five total figures.

A rate is a ratio of two measurements having different kinds of units. When a rate is simplified so that it has a denominator of 1, it is called a unit rate.

EXAMPLE 3 Write the ratio 20 students to 5 computers as a unit rate.

Divide the numerator and the denominator by 5 to get a denominator of 1. 20 students 4 students 5 computers

The ratio written as a unit rate is 4 students to 1 computer.

### **BXIEIGISES**

Write each ratio as a fraction in simplest form.

- 1. 2 guppies out of 6 fish
- 2. 12 puppies to 15 kittens
- 3. 5 boys out of 10 students

Write each ratio as a unit rate.

- 4. 6 eggs for 3 people
- **5.** \$12 for 4 pounds
- 6. 40 pages in 8 days

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# 10-1

### **Practice: Word Problems**

### Ratios

- 1. FOOTBALL In the NFL 2001–2002 season, the Miami Dolphins won 11 games and the Oakland Raiders won 10 games. What is the ratio of wins for the Dolphins to wins for the Raiders?
- 2. GARDENING Rod has 10 rosebushes, 2 of which produce yellow roses. Write the ratio 2 yellow rosebushes out of 10 rosebushes in simplest form.

- 3. TENNIS Nancy and Lisa played 20 sets of tennis. Nancy won 12 of them. Write the ratio of Nancy's wins to the total number of sets in simplest form.
- 4. AGES Oscar is 16 years old and his sister Julia is 12 years old. What will be the ratio of Oscar's age to Julia's age in 2 years? Write as a fraction in simplest form.

- **5. MOVIES** Four friends paid a total of \$32 for movie tickets. What is the ratio \$32 for 4 people written as a unit rate?
- 6. WORKING At a warehouse, the employees can unload 18 trucks in 6 hours. What is the unit rate for unloading trucks?

- 7. ANIMALS A reindeer can run 96 miles in 3 hours. At this rate, how far can a reindeer run in 1 hour? Explain.
- 8. SHOPPING Jenny wants to buy cereal that comes in large and small boxes. The 32-ounce box costs \$4.16, and the 14-ounce box costs \$2.38. Which box is less expensive per ounce? Explain.



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C 000000	Ratio	

Lesson: Ratio



Note: The relation between two quantities expressed as the quotient of one divided by the other: The ratio of 7 to 4 is written 7:4 or 7/4.

Example: What fraction represents the ratio 5:8?

5/8

8/5

5/13

8/13

Which fraction represents the given ratio (ratio to fraction):

1)	7:2			
	2/7	7/7	2/2	7/2
2)	5:3			
	10/6	3/5	5/5	10/3
3)	3:4			
	4/3	3/4	4/4	3/3
4)	9:5			
	9/9	27/15	10/18	5/5
5)	8:3			
	3/3	8/3	3/8	8/8
6)	4:7			
	7/7	8/14	4/14	7/4
7)	6:5			
	5/5	5/6	6/6	6/5
8)	2:7			
	6/21	7/21	6/2	21/6
9)	1:5			
	5/5	1/1	1/5	5/1
10)	4:5			
	10/8	4/8	10/5	8/10

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w J.E	ZScho	ool.com	Date:
	one divid		een two quantities expressed as the quotient of: The ratio of 7 to 4 is written 7:4 or 7/4. It to 14:2 False Explaination: 14/2 = 7 and not 7/4
Answer the	following	<b>]</b> :	
1) 3:4 is equiv	valent to 3	3:6	
•			Explaination:
2) 2:3 is equi	valent to 4	4:6	
-	True	False	Explaination:
3) 5:7 is equi	ivalent to 4	4:9	
	True	False	Explaination:
4) 5:2 is equi	ivalent to a	2:5	
	True	False	Explaination:
5) 3:5 is equi	ivalent to !	5:10	•
-	True	False	Explaination:
6) 4:9 is equi	ivalent to	8:18	
	True	False	Explaination:
7) 5:5 is equ	ivalent to	9:15	
	True	False	Explaination:
8) 7:5 is equ	ivalent to	5:7	
	True	False	Explaination:
9) 6:7 is equ	ivalent to	7:6	
9	True	False	Explaination:
10) 6:7 is equ	ivalent to	18:21	ж 2
	True	False	Explaination:
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Name:	
Date:	ii

Lesson: Ratio

Note: The relation between two quantities expressed as the quotient of one divided by the other: The ratio of 7 to 4 is written 7:4 or 7/4.

Example: What is the ratio of blue balls to red balls?

(2:3)

3:2

2:5

3:5











### Answer the following:

- What is the ratio of balloons to airplanes?
  - 3:2 2:3 2:5 3:5
- 3) What is the ratio of bones to ears?
  - 6:2 2:4 6:4 4:2
- 5) What is the ratio of balloons to tricycle?
  - 3:1 1:3 1:4 4:3
- 7) What is the ratio of vase to flowers?
  - 1:10 1:12 12:1 10:1
- 9) What is the ratio of kangaroos to its babies kangaroos?
  - 11:4 4:11 7:4 11:7

- 2) What is the ratio of leaves to flowers?
  - 2:4 2:6 4:2 4:6
- 4) What is the ratio of house to spiders?
  - 6:1 5:1 5:6 1:5
- 6) What is the ratio of hands to balls?
  - 5:2 2:7 7:2 2:5
- 8) What is the ratio of spiders to its legs?
  - 2:4 2:16 2:8 2:12
- 10) What is the ratio of blue buttons to buttons?
  - 8:9 17:8 9:17 9:8
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			Name: _		
			Date: _		
	EZSchool	.com	Lesson: _	Ratio	
,	Note: The re	elation between two q	uantities exp	ressed as the quotient of	
ES.	one divided b	by the other: The rat	io of 7 to 4 is	s written 7:4 or 7/4.	
	Example: There	are 4 apples and 3 o	ranges in a b	asket.	
	4:3> part to pa	art; 5:4 or 5:3> w	hole to part;	4:5 or 3:5> part to whole	
Ansı	wer the following:			· · · · · · · · · · · · · · · · · · ·	
	5 out of 10 students know	w Spanish. What type	of a ratio is	5:10?	
,	whole to part			to whole	
2)	It snowed 3 out of 4 day		5		
	whole to part	part to part		to whole	
3)	4 out of 9 baseball playe	rs participated in the	-		
	whole to part			to whole	
4)	There were 3 fish for ev	very turtle. What typ	e of ratio is	3:1?	
	whole to part	part to part	part	to whole	
5)	Each car has 4 wheels. V	Vhat <mark>type of a rati</mark> o is	s 1:4?		
	whole to part	part to part	part	to whole	
6)	There is one leader amou	ng every 10 kids. Who	it type of a r	atio is 1:10?	
	whole to part	part to part	part	to whole	
7)	Jay scored only 2 out of	10 in a test. What ty	pe of a ratio	is 2:8?	
	whole to part	part to part	part	to whole	
8)	She painted 3 cups out of	f 5. What type of a r	ratio is 5:3?		
	whole to part	part to part	part	to whole	
9)	Stella had 4 chocolate conf a ratio is 3:12?	hip cookies, 3 sugar c	ookies and 5	walnut cookies. What type	
	whole to part	part to part	part	to whole	
10)	Steven cleaned 3 shirts	, 4 pant <mark>s and 2 pullo</mark> ve	ers. What ty	pe of a ratio is 3:4?	
	whole to part	part to part		to w <b>hole</b>	
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