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_____ Period: _____ Date: _____

Unit 1 - TEST **Ratios and Proportional Relationsips**

Math 8

Part 1: Write the ratio of the given objects.





3. aabbababbbaaabababbbbaa

The ratio of ${f a}$	to b	is	·
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Part 2: Determine the unit rate.

- 1. 360 words in 10 minutes
- 2.960 cupcakes in 4 hours

Name:

Name:	Period:	Date:
Unit 1 - TEST		
Ratios and Proportional Relation	nsips	

Math 8

3. \$19.2 for 8 burgers

Part 3: Find the unknown value that will make each pair of ratios equivalent.

1. 4:x = 2:32

2. 24:32 = 12:x

3. x:25 = 60:75

Part 4: Arrange the following ratios from least to greatest.

1. 16:32 27:36 12:48

2. 45:75 9:45 90:225

_____ Period: _____ Date: _____

Name: _______ Period: ______ Unit 1 - TEST Ratios and Proportional Relationsips

Math 8

Part 5: Complete the table. Fractions must be in simplest form and decimals rounded off to the nearest hundredths.

	Fraction	Percent	Decimal
1.	46		
	100		
2.		45%	
3.			0.75
4.		30%	

Part 6: Answer the following problems.

- 1. In a football club, 55 out of 80 club members are boys.
 - a. What percent of the club are boys?
 - b. What percent of the club are girls?
 - c. Express the percent of boys in fraction.

Name: _____

_____ Period: _____ Date: _____

Unit 1 - TEST **Ratios and Proportional Relationsips**

Math 8

d. Express the percent of girls in fraction.

2. Michelle's toy treasure chest is 40 centimeters long and 30 centimeters wide. How many more millimeters is the length of the treasure chest than the width?

Name: _____ Period: _____ Date: _____ Unit 1 - TEST **Ratios and Proportional Relationsips**

Math 8

Answers:

2

Part 1: Write the ratio of the given objects.





The ratio of **a** to **b** is 12:13.

The ratio of 🔵 to 🛑 is 3:4.

Unit 1 - TEST Ratios and Proportional Relationsips

Math 8

Part 2: Determine the unit rate.

1. 360 words in 10 minutes

36 words per minute

- 2.960 cupcakes in 4 hours 240 cupcakes per hour
- 3. \$19.2 for 8 burgers \$2.4 per burger

Part 3: Find the unknown value that will make each pair of ratios equivalent.

1. 4:x = 2:32

<mark>x = 64</mark>

- 2. 24:32 = 12:x
 - <mark>x = 16</mark>
- 3. x:25 = 60:75

_____ Period: ______ Date: _____

Unit 1 - TEST **Ratios and Proportional Relationsips**

Math 8

<mark>x = 20</mark>

Part 4: Arrange the following ratios from least to greatest.

16:32 27:36 1 12:48 12:48, 16:32, 27:36 2. 45:75 9:45 90:225 <mark>9:45, 90:225, 45:75</mark>

Part 5: Complete the table. Fractions must be in simplest form and decimals rounded off to the nearest hundredths.

	Fraction	Percent	Decimal
1.	$\frac{46}{100}$	<mark>46%</mark>	<mark>0.46</mark>
2.	9 20	45%	<mark>0.45</mark>
3.	<mark>3</mark> 4	<mark>75%</mark>	0.75

Name: ______ Period: ______ Date: _____

Unit 1 - TEST Ratios and Proportional Relationsips

Math 8



Part 6: Answer the following problems.

1. In a football club, 55 out of 80 club members are boys.

a. What percent of the club are boys?

Solution: 69%

b. What percent of the club are girls?

Solution: 31%

c. Express the percent of boys in fraction.

Solution: 11/16

d. Express the percent of girls in fraction.

Solution: 5/16

Name:

Unit 1 - TEST Ratios and Proportional Relationsips

Math 8

2. Michelle's toy treasure chest is 40 centimeters long and 30 centimeters wide. How many more millimeters is the length of the treasure chest than the width?

_____ Period: _____ Date: _____

Solution: 40 centimeters = 400 millimeters 30 centimeters = 300 millimeters 400 mm - 300 mm = <mark>100mm more is the length of the treasure chest than the width.</mark>