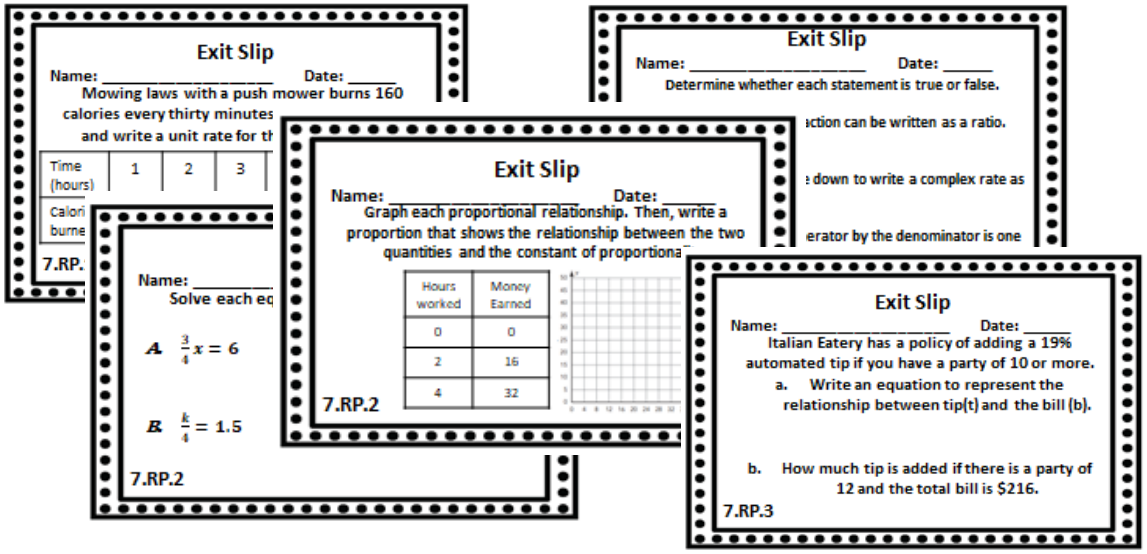
7th Grade Math CCSS
Exit Slips/Exit Tickets
Ratios & Proportional Relationships



7.RP.1

7.RP.2

7.RP.3

30 Exit Slips
10 Questions per Standard

By: Math in the Midwest

Exit Slip

Name: _____ Date: _____

Explain how to convert a complex rate to a unit rate. Give an example.

7.RP.1

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Name: _____ Date: _____

Explain how unit rates can be helpful when solving different types of mathematical and real world problems.

7.RP.1

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7.RP.1

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Name: _____ Date: _____

Mowing laws with a push mower burns 160 calories every thirty minutes. Complete the table and write a unit rate for the given situation.

Time (hours)	1	2	3	4
Calories burned				

7.RP.1

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Calories burned				

7.RP.1

Exit Slip

Name: _____ Date: _____

A box of paper clips plus another half box of paper clips contains 630 paper clips. Complete the table and write a unit rate for the given situation.

# of boxes	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
# of paper clips				

7.RP.1

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# of boxes	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
# of paper clips				

7.RP.1

Exit Slip

Name: _____ Date: _____

Rewrite each given rate as an equivalent ratio of fractions by converting one or both units of measure.

A. One fourth inch of rain fell in half an hour.

B. The baby gained 4 ounces every week.

7.RP.1

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Name: _____ Date: _____

Alex needs a rate table for his dog sitting job so he can look up his prices easily. Complete the rate table.

Time (hours)	1	$1\frac{1}{2}$	4	$5\frac{1}{2}$
Charge ($)			48	

7.RP.1

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Alex needs a rate table for his dog sitting job so he can look up his prices easily. Complete the rate table.

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7.RP.1

Exit Slip

Name: _____ Date: _____

Ali uses $2\frac{1}{2}$ scoops of drink mix to make 10 cups of drinks.

A. How much drink mix would she need to use to make 1 cup of drinks?

B. If Ali only has $6\frac{3}{4}$ scoops of drink mix left. How many cups of drinks can she make?

7.RP.1

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Name: _____ Date: _____

Determine whether each statement is true or false.

_____ 1. Any complex fraction can be written as a ratio.

_____ 2. You always scale down to write a complex rate as a unit rate.

_____ 3. Adding the numerator by the denominator is one way to convert a rate to a unit rate.

7.RP.1

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7.RP.1

Exit Slip

Name: _____ Date: _____

Fill in the blanks:

If a person walks $\frac{3}{4}$ a mile in $\frac{1}{2}$ hour, compute the unit rate as a complex fraction _____ miles per hour which is equivalent to _____ miles per hour.

7.RP.1

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Name: _____ Date: _____

Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

7.RP.2

Exit Slip

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Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

7.RP.2

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Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

7.RP.2

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Name: _____ Date: _____

Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

7.RP.2

Exit Slip

Name: _____ Date: _____

Fill in the blanks:

For a graph to represent a proportional relationship the points of the graph must form a _____ line and pass through the _____ of the graph. Draw an example of a graph that is proportional and one that is not.

7.RP.2

Exit Slip

Name: _____ Date: _____

Fill in the blanks:

For a graph to represent a proportional relationship the points of the graph must form a _____ line and pass through the _____ of the graph. Draw an example of a graph that is proportional and one that is not.

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Name: _____ Date: _____

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7.RP.2

Exit Slip

Name: _____ Date: _____

At a local college there are 8 women enrolled for every 3 men.

A. If there are 60 men enrolled how many women are enrolled?

B. Write an equation to determine the number of women enrolled if you know the number of men enrolled.

C. What is the constant of proportionally in this situation?

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7.RP.2

Exit Slip

Name: _____ Date: _____

Identify the constant of proportionally in each equation and describe its meaning.

$P = 4s$,where P represents the perimeter and s represents the sides of a square.

7.RP.2

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7.RP.2

Exit Slip

Name: _____ Date: _____

Solve each equation for the unknown value.

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

B. $\frac{k}{4} = 1.5$

7.RP.2

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7.RP.2

Exit Slip

Name: _____ Date: _____

The constant of proportionality between the number of children (c) at a day care and the number of adults (a) that work there is $\frac{7}{3}$.

A. Write an equation to represent this situation.

B. If there are 70 children at the day care. How many adults work there?

7.RP.2

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7.RP.2

Exit Slip

Name: _____ Date: _____

Solve for the unknown value using the equation for the constant of proportionality.

A. k = 1.5 and x = 50

B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

7.RP.2

Exit Slip

Name: _____ Date: _____

Solve for the unknown value using the equation for the constant of proportionality.

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B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

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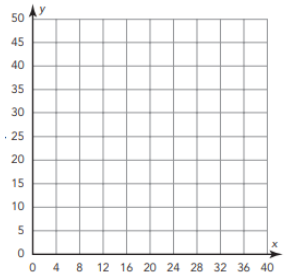
7.RP.2

Exit Slip

Name: _____ **Date:** _____

Graph each proportional relationship. Then, write a proportion that shows the relationship between the two quantities and the constant of proportionality.

Hours worked	Money Earned
0	0
2	16
4	32



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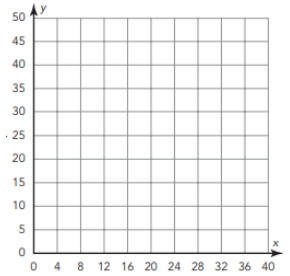

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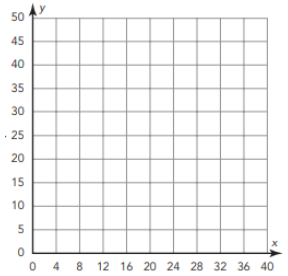

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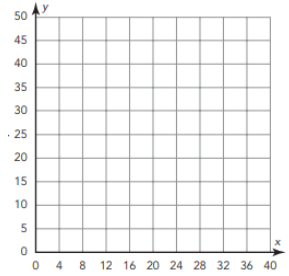
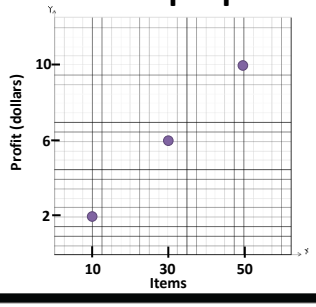


7.RP.2

Exit Slip

Name: _____ Date: _____

Determine the constant of proportionality for the following graph and write an equation using the constant of proportionality.



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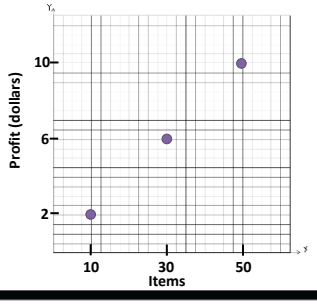

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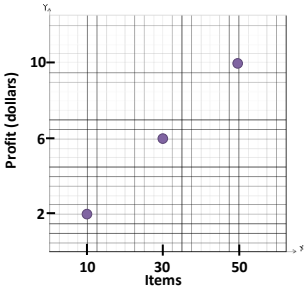

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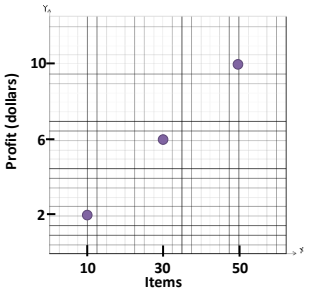

7.RP.2

Exit Slip

Name: _____ Date: _____

Determine which tables display proportional relationships. Explain your answer.

Table A

x	y
1	5
2	10
3	15

Table B

x	y
1	4
2	6
4	10

Table C

x	y
0	0
1	10
2	20

7.RP.2

Exit Slip

Name: _____ Date: _____

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Table A

x	y
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7.RP.2

Exit Slip

Name: _____ Date: _____

A store is selling electronics and mark up all the prices by 30%. If the store's cost for a printer is $25, what is the customer's cost?

7.RP.3

Exit Slip

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7.RP.3

Exit Slip

Name: _____ Date: _____

A store is selling electronics and mark up all the prices by 20%. The store's cost for a printer is $25, and Drew figured out the customer's cost is $5. Explain what Drew did wrong.

$$\frac{20}{100} = \frac{x}{25}$$

$$5 = x$$

The customer's cost Is $5

7.RP.3

Exit Slip

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7.RP.3

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$$5 = x$$

The customer's cost Is $5

7.RP.3

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Name: _____ Date: _____

If Sullie paid $450 for an iPhone that was 75% of the original price. What was the original price of the iPhone?

7.RP.3

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7.RP.3

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Name: _____ Date: _____

Video games that usually sell for $36.40 are on sale for $30.94. What percent off are they?

7.RP.3

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7.RP.3

Exit Slip

Name: _____ Date: _____

Write each proportion with a variable in the appropriate place, to calculate the unknown:

A. Calculate the Percent

B. Calculate the Whole

7.RP.3

Exit Slip

Name: _____ Date: _____

Write each proportion with a variable in the appropriate place, to calculate the unknown:

A. Calculate the Percent

B. Calculate the Whole

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Exit Slip

Name: _____ Date: _____

Write each proportion with a variable in the appropriate place, to calculate the unknown:

A. Calculate the Percent

B. Calculate the Whole

7.RP.3

Exit Slip

Name: _____ Date: _____

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A. Calculate the Percent

B. Calculate the Whole

7.RP.3

Exit Slip

Name: _____ Date: _____

Italian Eatery has a policy of adding a 19% automated tip if you have a party of 10 or more.

a. Write an equation to represent the relationship between tip(t) and the bill (b).

b. How much tip is added if there is a party of 12 and the total bill is $216.

7.RP.3

Exit Slip

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7.RP.3

Exit Slip

Name: _____ Date: _____

If a salesperson earns a 13% commission and sells a furniture set for $950. Determine the commission the salesperson will make.

7.RP.3

Exit Slip

Name: _____ Date: _____

If a salesperson earns a 13% commission and sells a furniture set for $950. Determine the commission the salesperson will make.

7.RP.3

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If a salesperson earns a 13% commission and sells a furniture set for $950. Determine the commission the salesperson will make.

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If a salesperson earns a 13% commission and sells a furniture set for $950. Determine the commission the salesperson will make.

7.RP.3

Exit Slip

Name: _____ Date: _____

If a car salesman earns a 10% commission and earned $1475 on a sale. What was the price of the car?

7.RP.3

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If a car salesman earns a 10% commission and earned $1475 on a sale. What was the price of the car?

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If a car salesman earns a 10% commission and earned $1475 on a sale. What was the price of the car?

7.RP.3

Exit Slip

Name: _____ Date: _____

1. How would you describe a 25 percent decrease?

2. How would you describe a 100 percent increase?

7.RP.3

Exit Slip

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7.RP.3

Exit Slip

Name: _____ Date: _____

Answer the following questions and show your work.

A. A pair of jeans originally cost $32, but its price decreases by 20%.

B. Erica is making $34,000 per year. She gets a 9% increase in pay.

7.RP.3

Exit Slip

Name: _____ Date: _____

Answer the following questions and show your work.

A. A pair of jeans originally cost $32, but its price decreases by 20%.

B. Erica is making $34,000 per year. She gets a 9% increase in pay.

7.RP.3

Exit Slip

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7.RP.3

Answer Keys

Exit Slip

Name: _____ Date: _____

Explain how to convert a complex rate to a unit rate. Give an example.

Answers will vary

7.RP.1

Exit Slip

Name: _____ Date: _____

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7.RP.1

Exit Slip

Name: _____ Date: _____

Explain how unit rates can be helpful when solving different types of mathematical and real world problems.

Answers will vary

7.RP.1

Exit Slip

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Answers will vary

7.RP.1

Exit Slip

Name: _____ **Date:** _____

Mowing laws with a push mower burns 160 calories every thirty minutes. Complete the table and write a unit rate for the given situation.

Time (hours)	1	2	3	4
Calories burned	**320**	**640**	**960**	**1280**

7.RP.1 **320 calories per hour or 53.33 calories per minute**

Exit Slip

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Calories burned	**320**	**640**	**960**	**1280**

7.RP.1 **320 calories per hour or 53.33 calories per minute**

Exit Slip

Name: _____ **Date:** _____

A box of paper clips plus another half box of paper clips contains 630 paper clips. Complete the table and write a unit rate for the given situation.

# of boxes	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
# of paper clips	**210**	**420**	**630**	**840**

7.RP.1

Exit Slip

Name: _____ **Date:** _____

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7.RP.1

Exit Slip

Name: _____ Date: _____

Rewrite each given rate as an equivalent ratio of fractions by converting one or both units of measure.

A. One fourth inch of rain fell in half an hour.

$$\frac{\frac{1}{4}\,inch}{\frac{1}{2}\,hour}$$

A. The baby gained 4 ounces every week.

$$\frac{\frac{1}{4}\,ounce}{1\,week}$$

7.RP.1

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7.RP.1

Exit Slip

Name: _____ **Date:** _____

Alex needs a rate table for his dog sitting job so he can look up his prices easily. Complete the rate table.

Time (hours)	1	$1\frac{1}{2}$	4	$5\frac{1}{2}$
Charge ($)	**12**	**18**	48	**66**

7.RP.1

Exit Slip

Name: _____ **Date:** _____

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7.RP.1

Exit Slip

Name: ______________________ Date: _______

Ali uses $2\frac{1}{2}$ scoops of drink mix to make 10 cups of drinks.

A. How much drink mix would she need to use to make 1 cup of drinks?

$\frac{1}{4}$ *scoop*

B. If Ali only has $6\frac{3}{4}$ scoops of drink mix left. How many cups of drinks can she make?

27 drinks

7.RP.1

Exit Slip

Name: ______________________ Date: _______

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7.RP.1

Exit Slip

Name: _____ Date: _____

Determine whether each statement is true or false.

True 1. Any complex fraction can be written as a ratio.

True 2. You always scale down to write a complex rate as a unit rate.

False 3. Adding the numerator by the denominator is one way to convert a rate to a unit rate.

7.RP.1

Exit Slip

Name: _____ Date: _____

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7.RP.1

Exit Slip

Name: _____ Date: _____

Fill in the blanks: $\frac{\frac{3}{4}\ mile}{\frac{1}{2}\ hour}$

If a person walks $\frac{3}{4}$ a mile in $\frac{1}{2}$ hour, compute the unit rate as a complex fraction _____ miles per hour which is equivalent to 1.5 mph miles per hour.

7.RP.1

Exit Slip

Name: _____ Date: _____

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7.RP.1

Exit Slip

Name: _____ Date: _____

Fill in the blanks: $\frac{\frac{1}{2}\ mile}{\frac{3}{4}\ hour}$

If a person walks $\frac{1}{2}$ a mile in $\frac{3}{4}$ hour, compute the unit rate as a complex fraction _____ miles per hour which is equivalent to 0.67 mph miles per hour.

7.RP.1

Exit Slip

Name: _____ Date: _____

Fill in the blanks: $\frac{\frac{1}{2}\ mile}{\frac{3}{4}\ hour}$

If a person walks $\frac{1}{2}$ a mile in $\frac{3}{4}$ hour, compute the unit rate as a complex fraction _____ miles per hour which is equivalent to 0.67 mph miles per hour.

7.RP.1

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7.RP.1

Exit Slip

Name: _____ Date: _____

Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

Answers will vary

7.RP.2

Exit Slip

Name: _____ Date: _____

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Answers will vary

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Name: _____ Date: _____

Describe how all graphs that display proportional relationships are the same. Sketch a graph that shows a proportional relationship.

Answers will vary

7.RP.2

Exit Slip

Name: _____ Date: _____

Fill in the blanks:

For a graph to represent a proportional relationship the points of the graph must form a straight line and pass through the origin of the graph. Draw an example of a graph that is proportional and one that is not.

7.RP.2

Exit Slip

Name: _____ Date: _____

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For a graph to represent a proportional relationship the points of the graph must form a straight line and pass through the origin of the graph. Draw an example of a graph that is proportional and one that is not.

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7.RP.2

Exit Slip

Name: ______________________ Date: _______

At a local college there are 8 women enrolled for every 3 men.

A. If there are 60 men enrolled how many women are enrolled?

160 women

B. Write an equation to determine the number of women enrolled if you know the number of men enrolled.

$W = \frac{8}{3}m$

C. What is the constant of proportionally in this situation?

$\frac{8}{3}$

7.RP.2

Exit Slip

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$\frac{8}{3}$

7.RP.2

Exit Slip

Name: _____ Date: _____

Identify the constant of proportionally in each equation and describe its meaning.

$P = 4s$,where P represents the perimeter and s represents the sides of a square.

The constant of proportionality is 4.
The perimeter divided by the side length always equals 4

7.RP.2

Exit Slip

Name: _____ Date: _____

Identify the constant of proportionally in each equation and describe its meaning.

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7.RP.2

Exit Slip

Name: _____ Date: _____

Solve each equation for the unknown value.

A. $\frac{3}{4}x = 6$ X = 8

B. $\frac{k}{4} = 1.5$ K = 6

7.RP.2

Exit Slip

Name: _____ Date: _____

Solve each equation for the unknown value.

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7.RP.2

Exit Slip

Name: _____ Date: _____

The constant of proportionality between the number of children (c) at a day care and the number of adults (a) that work there is $\frac{7}{3}$.

A. Write an equation to represent this situation.

$C = \frac{7}{3}a$

B. If there are 70 children at the day care. How many adults work there? 30 adults

7.RP.2

Exit Slip

Name: _____ Date: _____

The constant of proportionality between the number of children (c) at a day care and the number of adults (a) that work there is $\frac{7}{3}$.

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$C = \frac{7}{3}a$

B. If there are 70 children at the day care. How many adults work there? 30 adults

7.RP.2

Exit Slip

Name: ______________________ Date: _______

Solve for the unknown value using the equation for the constant of proportionality.

A. k = 1.5 and x = 50

$\frac{y}{50} = 1.5 \;\; and \; y = 75$

B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

$\frac{3\frac{3}{4}}{x} = \frac{1}{4} \;\; and \; x = 15$

7.RP.2

Exit Slip

Name: ______________________ Date: _______

Solve for the unknown value using the equation for the constant of proportionality.

A. k = 1.5 and x = 50

$\frac{y}{50} = 1.5 \;\; and \; y = 75$

B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

$\frac{3\frac{3}{4}}{x} = \frac{1}{4} \;\; and \; x = 15$

7.RP.2

Exit Slip

Name: ______________________ Date: _______

Solve for the unknown value using the equation for the constant of proportionality.

A. k = 1.5 and x = 50

$\frac{y}{50} = 1.5 \;\; and \; y = 75$

B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

$\frac{3\frac{3}{4}}{x} = \frac{1}{4} \;\; and \; x = 15$

7.RP.2

Exit Slip

Name: ______________________ Date: _______

Solve for the unknown value using the equation for the constant of proportionality.

A. k = 1.5 and x = 50

$\frac{y}{50} = 1.5 \;\; and \; y = 75$

B. k = $\frac{1}{4}$ and y = $3\frac{3}{4}$

$\frac{3\frac{3}{4}}{x} = \frac{1}{4} \;\; and \; x = 15$

7.RP.2

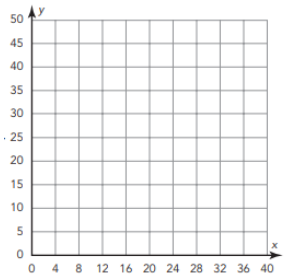
Exit Slip

Name: _____ **Date:** _____

Graph each proportional relationship. Then, write a proportion that shows the relationship between the two quantities and the constant of proportionality.

$\frac{m}{h} = \frac{8}{1}$

Hours worked	Money Earned
0	0
2	16
4	32



7.RP.2

Exit Slip

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$\frac{m}{h} = \frac{8}{1}$

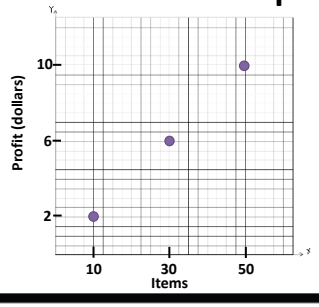
Hours worked	Money Earned
0	0
2	16
4	32

7.RP.2

Exit Slip

Name: _____ Date: _____

Determine the constant of proportionality for the following graph and write an equation using the constant of proportionality.



$K = \frac{2}{10}$ *or* 0.2

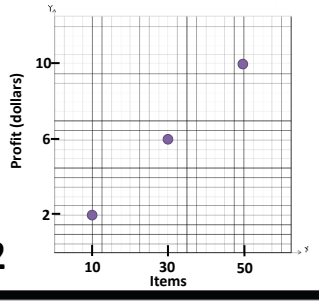
$P = \frac{1}{5}i$

7.RP.2

Exit Slip

Name: _____ Date: _____

Determine the constant of proportionality for the following graph and write an equation using the constant of proportionality.



$K = \frac{2}{10}$ *or* 0.2

$P = \frac{1}{5}i$

7.RP.2

Exit Slip

Name: _____ Date: _____

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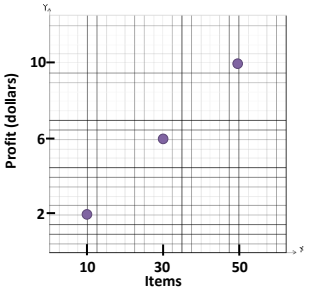

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7.RP.2

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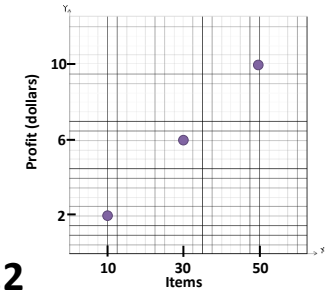

$K = \frac{2}{10}$ *or* 0.2

$P = \frac{1}{5}i$

7.RP.2

Exit Slip

Name: _____ Date: _____

Determine which tables display proportional relationships. Explain your answer.

Table A

x	y
1	5
2	10
3	15

Table B

x	y
1	4
2	6
4	10

Table C

x	y
0	0
1	10
2	20

7.RP.2

Table A and Table C

Exit Slip

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Table A

x	y
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2	10
3	15

Table B

x	y
1	4
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7.RP.2

Table A and Table C

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Table A and Table C

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2	6
4	10

Table C

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2	20

7.RP.2

Table A and Table C

Exit Slip

Name: _____ Date: _____

A store is selling electronics and mark up all the prices by 30%. If the store's cost for a printer is $25, what is the customer's cost?

The customer's cost is $30

7.RP.3

Exit Slip

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The customer's cost is $30

7.RP.3

Exit Slip

Name: _____ Date: _____

A store is selling electronics and mark up all the prices by 20%. The store's cost for a printer is $25, and Drew figured out the customer's cost is $5. Explain what Drew did wrong.

$$\frac{20}{100} = \frac{x}{25}$$

$$5 = x$$

The customer's cost Is $5

Drew only figured out the markup and forgot to add the store's cost for the printer to the mark up.

7.RP.3

Exit Slip

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7.RP.3

Exit Slip

Name: _____ Date: _____

If Sullie paid $450 for an iPhone that was 75% of the original price. What was the original price of the iPhone?

$600

7.RP.3

Exit Slip

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Exit Slip

Name: _____ Date: _____

Video games that usually sell for $36.40 are on sale for $30.94. What percent off are they?

15 percent

7.RP.3

Exit Slip

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7.RP.3

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Name: _____ Date: _____

Write each proportion with a variable in the appropriate place, to calculate the unknown:

A. Calculate the Percent

$$\frac{x}{100} = \frac{part}{whole}$$

B. Calculate the Whole

$$\frac{percent\ part}{100} = \frac{part}{x}$$

7.RP.3

Exit Slip

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Exit Slip

Name: _____ Date: _____

Italian Eatery has a policy of adding a 19% automated tip if you have a party of 10 or more.

a. Write an equation to represent the relationship between tip(t) and the bill (b).

t = 0.19b

b. How much tip is added if there is a party of 12 and the total bill is $216.

$41.04

7.RP.3

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Exit Slip

Name: _____ Date: _____

If a salesperson earns a 13% commission and sells a furniture set for $950. Determine the commission the salesperson will make.

$123.50

7.RP.3

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7.RP.3

Exit Slip

Name: _____ Date: _____

If a car salesman earns a 10% commission and earned $1475 on a sale. What was the price of the car?

$14,750

7.RP.3

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7.RP.3

Exit Slip

Name: _____ Date: _____

1. How would you describe a 25 percent decrease?

2. How would you describe a 100 percent increase?

7.RP.3

Exit Slip

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Exit Slip

Name: _____ Date: _____

Answer the following questions and show your work.

A. A pair of jeans originally cost $32, but its price decreases by 20%.

32 x 0.8 = 25.6

B. Erica is making $34,000 per year. She gets a 9% increase in pay.

34,000 x 1.09 = 37,060

7.RP.3

Exit Slip

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7.RP.3

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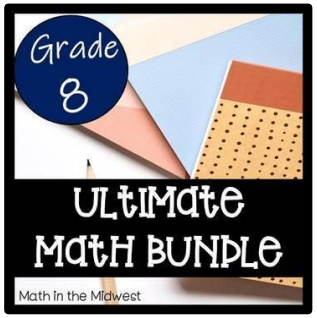
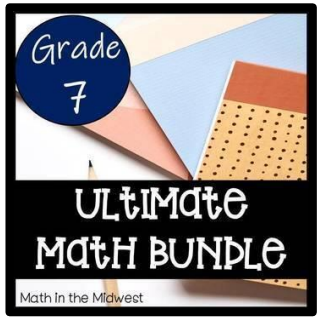
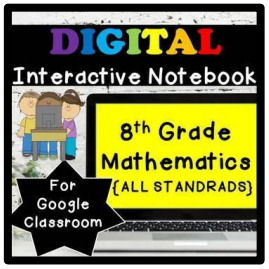
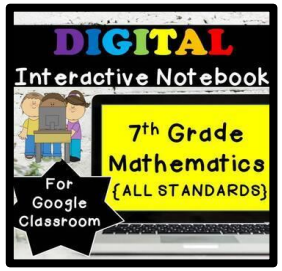


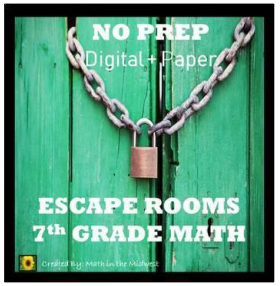


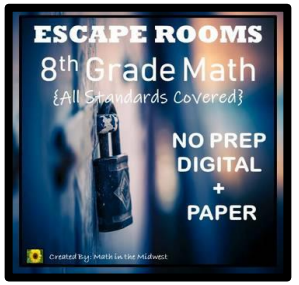
Digital Bundles:

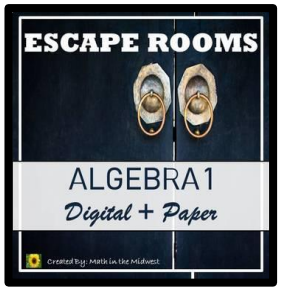




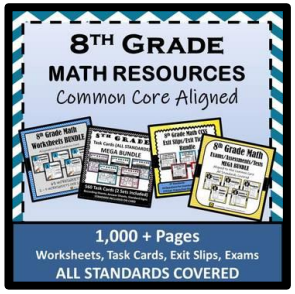
Escape Rooms:

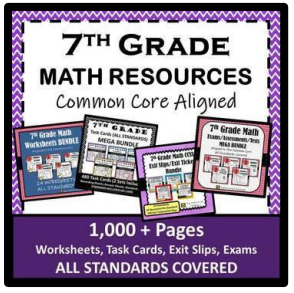






PDF Bundles:





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