



By: Math in the Midwest

Name:	Date:	Hour:

Ratios & Proportional Relationships - 7.RP.1

Read the following scenarios, complete the tables, and write a unit rate for each situation.

1) Jogging burns on average 275 calories every thirty minutes.

Time (Hours)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Calories burned				

2) A standard ream of paper plus another half ream of paper contains 750 sheets of paper.

# of reams)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Pieces of Paper				

Fill in the blanks for the following situations:

3) If a person walks $\frac{1}{4}$ mile in $\frac{1}{5}$ hour, compute the unit rate as a complex fraction, miles per hour which is equivalent to _____ miles per hour.

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

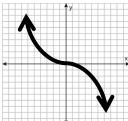
5) Maggie uses $4\frac{1}{2}$ scoops drink mix to make 15 cups of drinks.

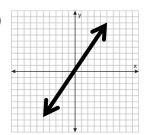
A. How much drink mix would she need to use to make 1 cup of drinks?

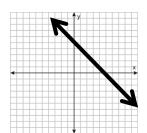
B. If Maggie only had $6\frac{1}{2}$ scoops drink mix left. How many cups of drinks can she make?

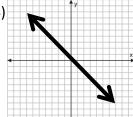
Ratios & Proportional Relationships - 7.RP.2

Determine which of the following graphs represent a proportional relationship:









5) What are two characteristics a graph must have in order for it to be proportional?

Determine which of the following tables represent a proportional relationship:

6)

х	у
0	0
1	2
2	4

7)

х	у
2	12
3	18
4	24

8)

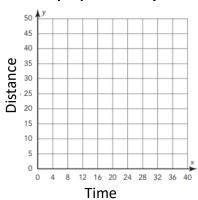
х	У
-1	0
0	0
5	0

9)

х	у
1	5
2	12
3	15

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

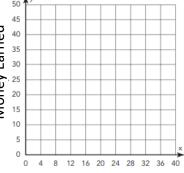
Distance Time 10 20 12 30



11)

Hours Worked	Money Earned
0	0
2	16
4	32
8	64

Money Earned



Proportion:

Proportion:

Hours Worked

- 12) In the 7th grade choir there are 4 females for every 3 males.
 - A. If there are 21 males in choir how many females are there?
 - B. Write an equation to determine the number of females enrolled if you know the number of males enrolled.
 - C. What is the constant of proportionally in this situation?

Name:	Date:	Hour:
Ratios & Proportional R	elationships -	- 7.RP.3
1) An antique store is getting ready for their annual show a expensive item they have to mark up is originally \$840, wh		/ 25%. If their most
2) Mr. and Mrs. Brown bought a new kitchen table for \$450 original price of he kitchen table.). It was 75% of the original	price. Determine the
3) The college bookstore is having a back to school marked down to \$20.7. What percent off are they?		lly sale for \$34.50 are
4) If a salesperson earns a 37% commission and hathe salesperson will make.	ıs a sell for \$345. Deterr	mine the commission
5) If a real estate agent earns a 3% commission and What was the price of the home?	d earned \$4,350 on the	closing of a home.
6) Backpacks originally cost \$24, but a 40% back to price of the backpack.	school sale is going on	. Determine the sale
7) Jack's BBQ has a policy of adding a 16% tip if you to represent the relationship between tip(t) and the would be if the bill is \$145.		

Name:

Date: _____ Hour: ____

Ratios & Proportional Relationships - 7.RP.1

Read the following scenarios, complete the tables, and write a unit rate for each situation.

Jogging burns on average 275 calories every thirty minutes.

Time (Hours)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Calories burned	275	550	825	1,100

2) A standard ream of paper plus another half ream of paper contains 750 sheets of paper.

# of reams)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Pieces of Paper	250	500	750	1000

Fill in the blanks for the following situations:

3) If a person walks $\frac{1}{4}$ mile in $\frac{1}{5}$ hour, compute the unit rate as a complex fraction, $\frac{1}{4}$ miles per hour which is equivalent to $\frac{1.25}{1}$ miles per hour.

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

5) Maggie uses $4\frac{1}{3}$ scoops drink mix to make 15 cups of drinks.

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

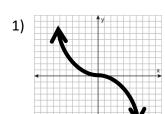
0.3 scoops

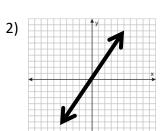
B. If Maggie only had $6\frac{1}{2}$ scoops drink mix left. How many cups of drinks can she make?

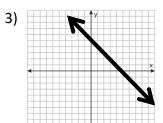
21 drinks

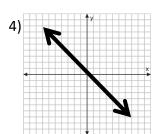
Ratios & Proportional Relationships - 7.RP.2

Determine which of the following graphs represent a proportional relationship:









Not proportional Proportional Not proportional 5) What are two characteristics a graph must have in order for it to be proportional? Not proportional

Proportional

Straight line and go through the origin

Determine which of the following tables represent a proportional relationship:

6)

Х	У
0	0
1	2
2	4

7)	Х	У
	2	12
	3	18
	4	24

Proportional

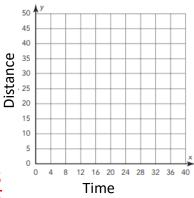
Proportional

Not proportional

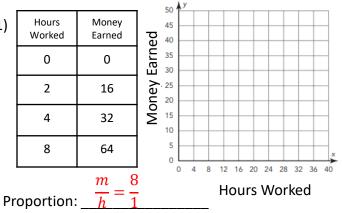
Not proportional

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

10)	Time	Distance
	0	0
	4	10
	8	20
	12	30



11)	Hours Worked	Money Earned
	0	0
	2	16
	4	32
	8	64
		m Q



Proportion:

12) In the 7th grade choir there are 4 females for every 3 males.

A. If there are 21 males in choir how many females are there?

28 females

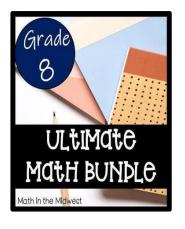
B. Write an equation to determine the number of females enrolled if you know the number of males enrolled.

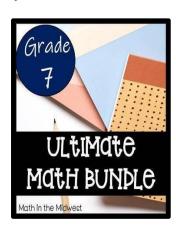
C. What is the constant of proportionally in this situation?

Name:	Date:	Hour:
Ratios & Propo	rtional Relations	hips - 7.RP.3
1) An antique store is getting ready for the expensive item they have to mark up is ori	•	•
2) Mr. and Mrs. Brown bought a new kitch original price of he kitchen table.	en table for \$450. It was 75% of t $\$1800$	the original price. Determine the
3) The college bookstore is having a marked down to \$20.7. What percer		that usually sale for \$34.50 are
4) If a salesperson earns a 37% comi the salesperson will make.	mission and has a sell for $$34$ $$127.65$	45. Determine the commission
5) If a real estate agent earns a 3% c What was the price of the home?	commission and earned \$4,35 $$145,000$	50 on the closing of a home.
6) Backpacks originally cost \$24, but price of the backpack.	t a 40% back to school sale is $\$14.40$	going on. Determine the sale
7) Jack's BBQ has a policy of adding a to represent the relationship between would be if the bill is \$145.	en tip(t) and the bill (b). The	

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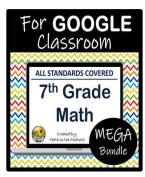
Ultimate Bundles:

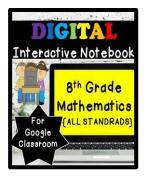


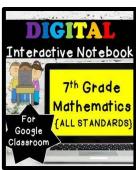


Digital Bundles:

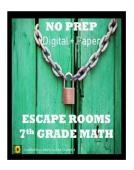








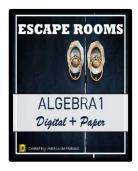
Escape Rooms:

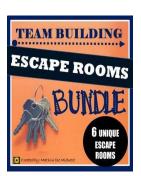




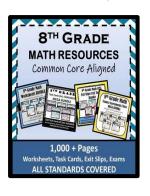


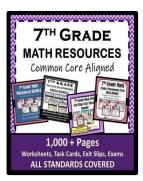






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