

Week of April 20-24, 2020

Mrs. Epperson

How are you doing? I am REALLY missing you ALL! If you are able, please connect with us through our google classroom. We have weekly calls on Thursdays if you are able to join us. They are NOT required, but it's nice to catch up and see your faces. The times we meet on Thursdays are 6th grade: 12:45-1:15, 7th grade: 1:15-1:45, and 8th grade: 1:45-2:15, you can find the link to connect with us in your student email (same email and password you use to log into chromebooks; remember, the ending of your email address is @oakland5.org)

You may use your math folder to help you. You have to complete 1 worksheet, but may complete all 3. I am available at nichole.epperson@oakland5.org or 708-517-0534 for any questions. You may call or text.

All worksheets have the appropriate grade level/subject at the top.

Class	Choice 1	Choice 2	Choice 3
6th grade math	2-3	2-4	2-5
7th grade math	2-2	2-3	2-6
8th grade Algebra	1-10	2-2	2-3



2-2 Additional Practice

Week of 4/20-4/24

Leveled Practice In 1-4, find the unit rate.

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1.

Miles	$\frac{1}{5}$
Hours	$\frac{1}{65}$

miles per hour

$$2. \frac{650 \text{ ft}^2}{\frac{2}{3} \text{ h}} = \frac{650 \div}{\div} = \frac{650 \times}{\times} =$$

square feet per hour

3. $\frac{\frac{1}{7} \text{ inch}}{\frac{1}{14} \text{ minute}}$

4. $\frac{\frac{7}{5} \text{ miles}}{\frac{2}{3} \text{ hour}}$

5. A store sells two kinds of candles, scented and unscented. The candles burn at different rates. Which kind of candle burns more in one hour? How much more per hour?

Type of Candle	Rate of Burn
Scented	$\frac{1}{8}$ inch in $\frac{1}{4}$ hour
Unscented	$\frac{1}{9}$ inch in $\frac{1}{3}$ hour

6. In the first $\frac{1}{6}$ hour of a rainstorm, $\frac{1}{10}$ inch of rain fell. If the rain continued to fall at the same rate, how much rain fell in $2\frac{1}{2}$ hours?

7. A recipe calls for $\frac{1}{2}$ cup of Ingredient A for every $1\frac{2}{3}$ cups of Ingredient B. How many cups of Ingredient B do you need when using 4 cups of Ingredient A?

8. Graham drove $42\frac{1}{3}$ miles in $1\frac{1}{3}$ hours.
- a. How many miles did he drive in one hour?

b. How many hours did he take to drive one mile?

7th grade- Epperson, week of 4/20-4/24

9. Construct Arguments Al made a tree house last summer. He started by making a model. The model included a window with a height of $\frac{1}{3}$ inch and a width of $\frac{1}{6}$ inch. The actual window had a height of $\frac{1}{2}$ yard and a width of $\frac{1}{4}$ yard. Was Al's model an accurate representation? Explain.

10. Be Precise Yesterday, Noah ran $2\frac{1}{2}$ miles in $\frac{3}{5}$ hour. Emily ran $3\frac{3}{4}$ miles in $\frac{5}{6}$ hour. Anna ran $3\frac{1}{2}$ miles in $\frac{3}{4}$ hour. How fast, in miles per hour, did each person run? Who ran the fastest?

11. Higher Order Thinking Josh plans to make birdhouses to sell at a craft fair. The sample of wood he uses has an area of $\frac{1}{5}$ square foot and weighs $\frac{1}{2}$ pound. The local hardware store sells the wood only by the square yard. There are 9 square feet in 1 square yard.

- a. How many pounds of the wood are there in one square yard?
- b. If Josh needs 3 square yards of the wood in all, how many pounds of the wood does he need?

Assessment Practice

12. A map shows the town where Niko lives. The actual distance from Niko's house to his school is 3 miles, and measures one-half inch on the map. The actual distance from Niko's school to the library is 4 miles. How long is this distance on the map?

13. A group of penguins swam $\frac{4}{5}$ mile in $\frac{1}{3}$ hour. Use the table to find how many miles the penguins swam in one hour if they swam at about the same pace for the entire hour.

The penguins swam miles in one hour.

Miles	<input type="text"/>
Hours	$\frac{1}{3}$

Name: _____



PRACTICE



TUTORIAL

2-3 Additional Practice

Week of 4/20-4/24

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1. At a café, the cook uses a recipe that calls for eggs and milk. The amounts of eggs and milk have a proportional relationship. Complete the table.

Ingredients in Recipe

Number of Eggs	2	3	
Cups of Milk	6		12
$\frac{\text{Milk}}{\text{Eggs}}$		$\frac{3}{1}$	$\frac{3}{1}$

2. **Use Structure** Is the relationship between x and y proportional? Explain.

x	y
5	25
6	30
7	35
8	40

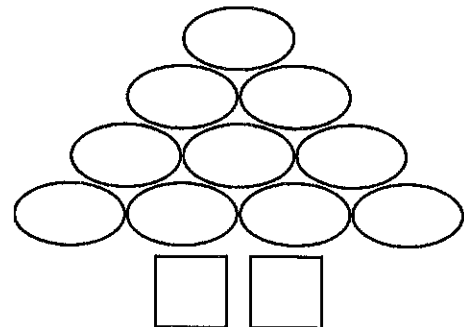
3. **Construct Arguments** Does the table show a proportional relationship between x and y ? Explain.

x	y
2	4
4	16
7	79
10	100

4. Does the table show a proportional relationship? If so, what is the value of y when x is $\frac{3}{5}$?

x	y
30	150
$\frac{1}{6}$	$\frac{5}{6}$
199	995
$\frac{2}{15}$	$\frac{2}{3}$

5. In a stationery design, the number of ovals is proportional to the number of squares. How many squares will there be when there are 75 ovals?



7th grade- Epperson, week of 4/20-4/24

6. The table shows a proportional relationship between x and y .

a. Complete the table.

x	y	$\frac{y}{x}$
3	30	
5	50	
7	70	

b. Katerina says the ratio $\frac{y}{x}$ is $\frac{1}{10}$. What error did she likely make?

7. **Higher Order Thinking** Do the two tables show the same proportional relationship between x and y ? Explain.

x	500	750	1,000
y	1,250	1,875	2,500

x	3	4	5
y	4.2	5.6	7

Assessment Practice

8. During snowstorms, the city sends out trucks to plow. The amount of snowfall and the number of trucks sent out are shown in the table.

Snow Plowing Plan

Snowfall (in.)	Trucks
6	15
8	20
12	30
18	45

PART A

Is the relationship between the amount of snowfall and the number of trucks proportional? Explain.

PART B

For a 23-inch snowfall, how many trucks would the city send out? Explain.

9. Which of the following statements about the table is true? Select all true statements about the table.

- The table shows a proportional relationship.
- All the ratios $\frac{y}{x}$ for related pairs of x and y are equivalent to 7.5.
- When x is 13.5, y is 4.5.
- When y is 12, x is 4.
- The unit rate of $\frac{y}{x}$ for related pairs of x and y is $\frac{1}{3}$.

x	y
10.5	3.5
15.9	5.3
22.5	7.5
27	9



PRACTICE



TUTORIAL

2-6 Additional Practice

Week of 4/20-4/24

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In 1 and 2, determine whether you can use proportional reasoning and then solve.

- The table shows the number of Calories Jane burns while exercising. How many Calories would she burn by exercising for 29 minutes? Explain.
- It takes 3 hours for Marty and Cora to weed a garden. How long will it take 6 people to weed the same garden if they all work at the same constant rate? Explain.

Jane's Exercise

Time in Minutes (x)	Calories Burned (y)
20	220
25	275
30	330
40	440

- At a cookout, Mrs. Crawford makes $\frac{8}{9}$ pound of chicken, plus 1 pound for each guest. Is the relationship between the number of guests and pounds of chicken proportional? Explain.
- How long will it take the jet to travel 5,880 miles?

Passenger Jet Travel

Hours	1	2	3	4
Miles	490	980	1,470	1,960

- A machine can make 56 parts in 4 hours. It can also make 70 parts in 5 hours. Write an equation that relates the number of parts the machine can make and the time in hours. Predict how many parts the machine can make in 9 hours, 30 minutes.
- Look for Relationships** The table shows the relationship between a hedgehog's weight loss and the number of days it has spent in hibernation. How much weight would the hedgehog lose during 115 days in hibernation?

Weight Loss of Hedgehog

Days in Hibernation	Loss in Weight (oz)
8	0.24
28	0.84
75	2.25
93	2.79

7th grade- Epperson, week of 4/20-4/24

7. Higher Order Thinking During the first week of the season, Carly averaged 27 points per basketball game. Then she went on a scoring streak. The table shows the increase in the number of points she scored per game from her Week 1 average.

Carly's Scoring

Week	Increase in Points
2	3
3	4.5
4	6

a. If her streak continues into the fifth week, what would Carly's number of points per game be for Week 5?

b. **Be Precise** Describe how the number of points per week changes over the five weeks.

8. Reasoning The table shows the numbers of home runs a baseball player hit during spring training and during the regular season for four years. How many home runs would the player likely have hit during the regular season with 3 home runs hit during spring training? Explain.

Home Runs

Spring Training	Regular Season
2	8
4	4
5	20
6	24



Assessment Practice

9. The ratio of pineapple juice to sparkling water that Sylvia and her friends used to make punch last week was 3 : 2. They used 4 quarts of water last week. This week, Sylvia and her friends want to make three times as much punch.

PART A

Is the relationship between the amount of pineapple juice and the amount of sparkling water proportional? Explain.

PART B

How much pineapple juice do Sylvia and her friends need for this week's punch?

- Ⓐ 18 quarts
- Ⓑ 12 quarts
- Ⓒ 6 quarts
- Ⓓ 3 quarts