

Week of April 27- May 1, 2020

Mrs. Epperson

Hi! My heart is truly missing you, I hope you are staying well! 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	5-2	5-6	5-7
7th grade math	3-1	3-5	3-6
8th grade Algebra	2-5	2-6	2-8

Name: _____

Choices

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5-2 Additional Practice

Week of 4/27-5/1

In 1-9, write three ratios that are equivalent to the given ratio.

1. $\frac{3}{5}$

2. $\frac{4}{8}$

3. $\frac{6}{18}$

4. 8:10

5. 6:8

6. 10:12

7. 12 to 18

8. 16 to 18

9. 5 to 25

In 10-15, use = or \neq to show whether the ratios are equivalent.

10. 3:12 \bigcirc 6:24

11. $\frac{28}{16}$ \bigcirc $\frac{7}{4}$

12. 4 to 20 \bigcirc 1 to 4

13. $\frac{4}{6}$ \bigcirc $\frac{6}{9}$

14. 27 to 9 \bigcirc 24 to 4

15. 6:10 \bigcirc 8:15

In 16 and 17, complete the tables with equivalent ratios.

16. A wildlife conservancy maintains a ratio of 2 squirrels for every 8 birds. How many birds would there be if there were 15 squirrels?

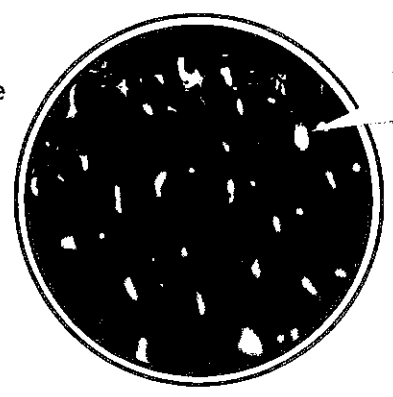
Animals					
Squirrels	2	4	5	\bigcirc	15
Birds	8	\bigcirc	20	40	\bigcirc

17. At Rolling Hills Middle School, the ratio of the total number of students to the number of students with pets is 3 to 1. If there are 243 students at the school, how many students have pets?

Number of Students with Pets	1	3	9	\bigcirc	81
Total Number of Students	3	9	\bigcirc	81	\bigcirc

6th grade math- Epperson, week of 4/27-5/1

18. Scientists study ways to increase the population of wild salmon. How many salmon eggs may be needed to produce 18 adult salmon?

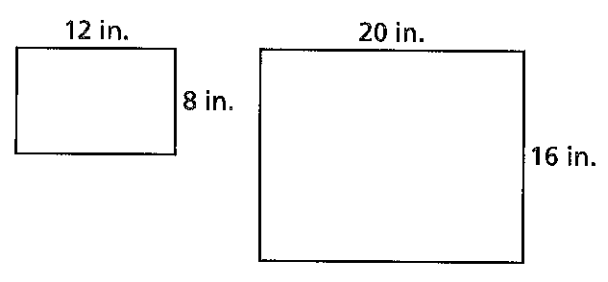


For every 8,000 eggs, only 2 adults may survive.

19. Construct Arguments Tell why you cannot multiply or divide by 0 to find equivalent ratios.

20. Critique Reasoning Dale says the ratios 3:5 and 2:10 are equivalent. Is he correct? Explain.

21. Is the ratio of length to width equivalent for these two rectangles? Explain.



22. Higher Order Thinking An animal shelter can hold a total of 60 cats and dogs. For every 5 cats the shelter can house, there is room for 7 dogs. How many cats and dogs are at the shelter when it is completely full?

23. Be Precise For a small music concert, each child in attendance will get a free toy trumpet. Five adults are expected for every 2 children. Find how many children are expected if there are 15 adults, 25 adults, and 40 adults.

Assessment Practice

24. In a section of a lake, there are 8 sailboats for every 6 motorboats. Complete the table to find equivalent ratios and determine the number of sailboats there will be when there are 24 motorboats.

Sailboats	8			
Motorboats	6	12	18	24

25. Which ratios represent Pi (π)? Select all that apply.

- 66 : 21
- 60 : 20
- 45 : 15
- 22 : 7
- 21 : 7



5-6 Additional Practice

Week of 4/27-5/1

In 1-4, find each unit price.

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1. 8 pencils for \$2.24

2. 5 used books for \$9.45

3. $\frac{1}{2}$ gallon of orange juice for \$3.65

4. 6 goldfish for \$7.38

In 5-8, determine which is the better value.

5. 1 pound of apples for \$2.15 or 3 pounds of apples for \$5.76

6. 8 bungee cords for \$10.00 or 20 bungee cords for \$22.00

7. 32 fluid ounces of juice for \$7.04 or 20 fluid ounces of juice for \$4.80

8. 5 ounces of insect repellent for \$6.95 or 14 ounces of insect repellent for \$19.60

In 9-11, compare the rates to find which is greater.

9. 510 visitors in 30 hours or 960 visitors in 60 hours

10. 660 miles on 20 gallons or 850 miles on 25 gallons

11. 1,080 labels on 90 sheets or 2,250 labels on 150 sheets

In 12-14, compare the rates to find which is the better value.

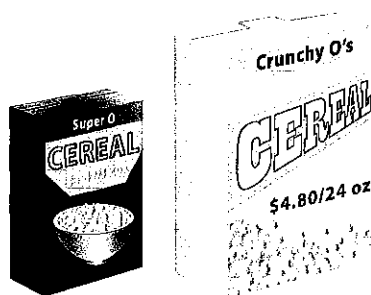
12. \$285 for 150 ft² of carpet or \$252 for 120 ft² of carpet

13. \$74 for 4 theater tickets or \$91 for 5 theater tickets

14. \$960 for 30 textbooks or \$1,625 for 50 textbooks

6th grade math- Epperson, week of 4/27-5/1

15. Reasoning Which box of cereal is a better value? Explain.



16. Construct Arguments Ruth is buying potatoes. Which is a better value: a 4-pound bag for \$2.40 or a 10-pound bag for \$5.20? Explain when a wiser purchase may NOT be the better value.

17. Be Precise On Monday, it snowed 30 inches in 16 hours. On Thursday, it snowed 21 inches in 6 hours. On which day did it snow at a greater rate each hour? How much more per hour?

18. Higher Order Thinking The Fleet Feet training log is shown at the right. Deana ran 462 miles. Her weekly mileage rate was greater than Pavel's rate but less than Alberto's rate. Complete the training log. How many weeks could it have taken her to run 462 miles?

Fleet Feet Training Log

Runner	Miles	Weeks	Rate per Week
Pavel	672	21	
Deana	462	?	
Alberto	420	12	

Assessment Practice

19. An office supply store sells packs of pens. Bargain shoppers have four options.

PART A

Complete the table to find the unit price for each option.

Packs of Pens	Unit Price
5 pens for \$4.85	
12 pens for \$11.40	
25 pens for \$24.50	
60 pens for \$57.60	

PART B

Compare the unit rates found in Part A and identify the best value.

Name: _____



PRACTICE



TUTORIAL

5-7 Additional Practice

Week of 4/27-5/1

In 1-3, solve the rate problems.

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1. Jason and his family travel 160 miles in 3.2 hours. If they continue at this constant speed, how long will it take them to travel 300 miles? Complete the table.

It will take Jason and his family hours to travel 300 miles.

Time (hours)	Distance (miles)
1	<input type="text"/>
3.2	160
<input type="text"/>	300

2. A space shuttle orbits Earth at a rate of about 4,375 miles in 15 minutes. At this rate, how far does the space shuttle travel around Earth in 1 hour?
3. A store sells 4 cans of beans for \$9. What is the price of 7 cans of beans?
4. The new *Vigo the Vampire Hunter* novel is 520 pages. Skyler has read 145 pages in 5 hours. Ramon has read 124 pages in 4 hours.
- a. Who reads faster, Skyler or Ramon?
- b. How long will it take Ramon to read the entire novel if he continues to read at his current rate? Explain.
5. Hanna and Dien are both getting a raise. Who will earn more per hour after the raise?

	Hours Worked	Earnings	Raise (per hour)
Hanna	8	\$78.00	\$1.00
Dien	6	\$60.60	\$0.50

- a. How can you use unit prices to find Hanna's and Dien's new earnings per hour? Explain.
- b. Solve the problem.

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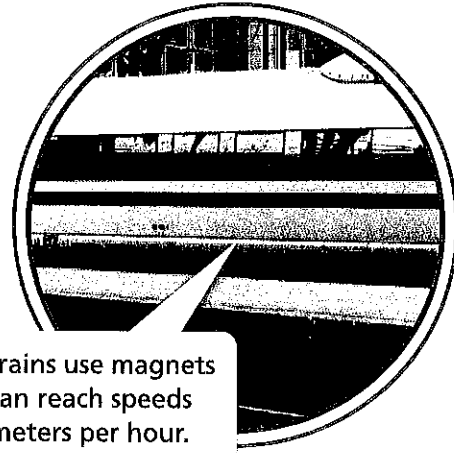
6. Model with Math Kenny is walking at a constant speed of 3.5 miles per hour. How far can he walk in 6 hours? Complete the table. Then write an equation to find the total distance, d , traveled after t hours to solve the problem.

Time, t (hours)	1	2	3	4
Distance, d (miles)	3.5			

In 7 and 8, use the picture at the right.

7. If the maglev train travels at a constant speed of 480 kilometers per hour for $\frac{1}{4}$ hour, how far does the train travel?

8. If the maglev train traveled at a constant rate of its top speed for 10 kilometers, what is the approximate amount of time in hours the train would have traveled?



Because maglev trains use magnets to levitate, they can reach speeds of up to 500 kilometers per hour.

9. Cora babysat for $3\frac{1}{2}$ hours and charged \$28. At the same hourly rate, what would she charge for $5\frac{1}{2}$ hours of babysitting?

10. Higher Order Thinking A cyclist rode at a constant speed of 21 mph for 3 hours. Then she decreased her rate of speed to 17 mph for 4 hours. How far did the cyclist ride in 7 hours?

✓ Assessment Practice

11. Jack drove 325 miles in 5 hours.

PART A

How many miles per hour did Jack drive?

PART B

Jack will drive 520 more miles at the same rate. How long will it take Jack to drive the 520 miles?