6th Grade Math Assignments <u>April 27 - May 8</u>

This packet we have two options for assignments- online and on paper. You only need to do ONE set of assignments. (unless you're super bored and want to do both- knock yourself out)

If you have internet access and want to work online, please **go to our Google Classrooms to see your Pearson and ALEKS assignments for this week**. There are videos and practice assignments posted there. If you are having trouble logging in to Google, Pearson, or ALEKS, please visit: **tinyurl.com/rax8h9n**

Ms. Lortie's Google code: t4mku56

Ms. Pham's Google code: yzelatt

Ms. Burnett's Google code: no3mtnq

Please still use the notes pages that came with this packet when you work online- we are practicing the same skills in both places!

If you don't have access or would prefer to work on paper, here are this week's alternate assignments:

- 1. Work on the Skills Survey paper to practice basic skills (substitute for ALEKS)- both sides, all 40 questions. 1 paper is for each week.
- 2. Read through the notes on Statistics, Ratios, and Unit Rates (review)
- 3. Work on the practice problems for all topics.

To turn in this work (just the worksheets, please keep the notes!), you can either

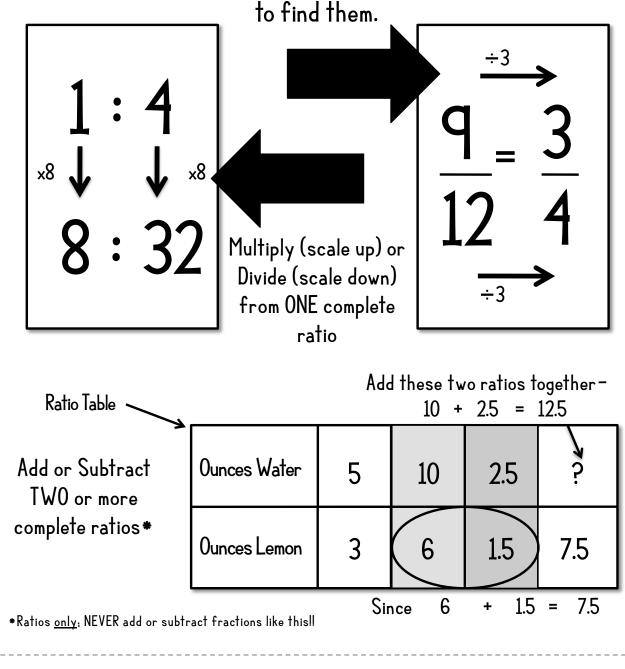
- Drop it off in the box at AMS by the breakfast/lunch pickup, on Wednesdays and Thursdays from 10:00AM-2:00PM. Please put your work back in the envelope and make sure your first and last name and your teacher's name is on it!
- Drop it off at Keeling, Holaway, or Rio Vista on Fridays from 8:00AM-12:30PM. Look for the black bin labeled AMS. Please put your work back in the envelope and make sure your first and last name and your teacher's name is on it!
- Take a picture of it and email it to your teacher, or upload it to the Google Classroom assignments.

Our websites have lots of ways to contact us if you need help. Please let us know! We miss you and hope you are doing well!

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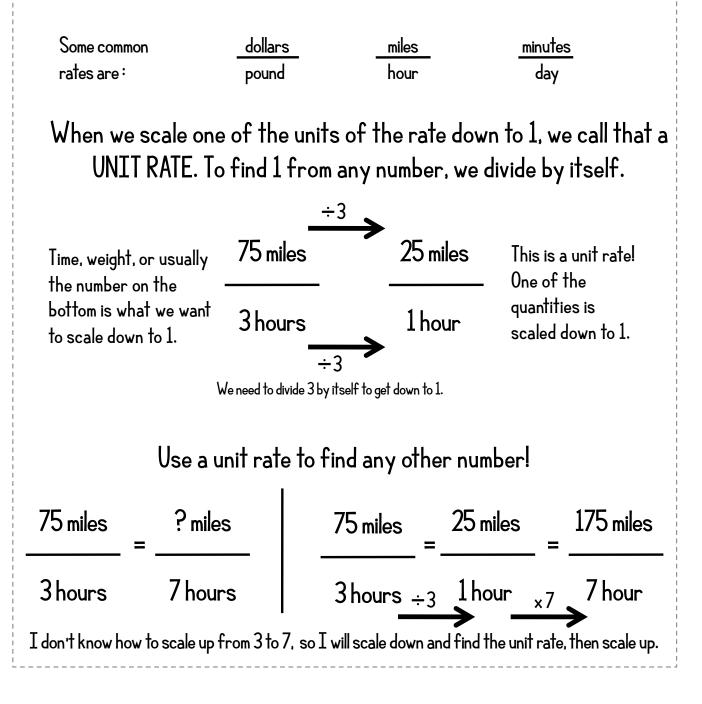
Equivalent Ratios

Two ratios are <u>equivalent</u> when they have the same multiplicative relationship. They have the same value, but are made with bigger or smaller numbers. We scale up (bigger) or scale down (smaller)



Unit Rates

A **rate** is a ratio comparing quantities measured with different units. We usually read them with "per" instead of "to" in the middle.



Ratio Review Practice

Directions: Fill in the blank boxes in the ratio tables to make equivalent ratios

1.				2.				3.			
	4		28		15	60			9		6
	5	15			4		2			1	2
					-						
4.				5.				6.			
4.	52	14		5.	150	50		6.	2.5	1	
4.	52	14 5	25	5.	150 120	50	12	6.	2.5 5	1	6

Directions: Determine if the ratios are equivalent- write yes or no

7. 8:7 and 48:42	8. 9:10 and 2:3	9. 7:11 and 14:22
10. 5:11 and 25:66	11. 8:4 and 24:48	12. 2:5 and 10:12

Unit Rate Review Practice

Directions: Write the unit rate for each situation Example: \$15.00 for 3 movies = \$5.00 for <u>1</u> movie

Directions: Solve each problem

1. An ice cream factory makes 290 quarts in 10 hours. How many quarts could they make in 12 hours? How many could they make in an entire day?

 Ms. Lortie wants to go on the new Star Wars ride at Disneyland. She is in group 82. Group 1 started at 8:00AM. By 10:00 they were on Group 28. At about what time will Ms. Lortie get on the ride?*

Notes and Definitions for Mean, Median, Mode, Range

- The <u>Mode</u> of a set of data is the number that appears the most often. You might hear the phrase used, "What is the <u>modal</u> score of the data?" This means, "What score/number was the most common?"
- The mode is useful if you're trying to figure out something like favorites. For example, if you were trying to find out the class's favorite color by asking everyone to list their favorite color, you'd have to go with the answer that the **most** people said. That's the mode.
- The <u>Median</u> of a set of data is the number that is in the middle of a set of data. For example, in this list: <u>5,2,1,3,4</u>, three is the median, because it's in the middle of the data once you put it into order from smallest to largest. [If we had an even amount of numbers, we'd have to average the two in the middle by adding them together then dividing by 2.]
- The median is useful to measure the center of a set of data. It is best to use the median if you have some **outliers.** An outlier is a piece of data that is very far away from the rest of the numbers in your data.
- The <u>Mean</u> of a set of data is the average of all the data. To find the mean you add up all the numbers together, then divide by how many pieces of data you had. For example, in this set of data: 5, 2, 1, 3, 4, when you add them all together you get: 5 + 2 + 1 + 3 + 4 = 15. Since there are 5 pieces of data, you do $15 \div 5 = 3$. The mean is 3!
- Mean is useful to measure the center of a set of data. Mean is best to use if you <u>do not</u> <u>have any outliers</u>. Another phrase used for mean is the "<u>fair share</u>." For example if three kids wanted to share their Skittles equally and one kid had 4 Skittles, another had 5 Skittles, and the last one had 9 skittles, they could put all of their Skittles together (4+5+9 = 18), then split them equally between the three of them (18 ÷ 3 = 6). Each kid's fair share (or mean) would be 6 Skittles.
- Although the mean and median both measure the center of a list of numbers, the median is often time more accurate for all data than the mean is.
- Finally, we have the **Range**. The range tells the difference between the smallest number and the largest number in a set of data. For example, in this set of data:
- 5, 2, 1, 3, 4, the range is 5-1 OR 4.
- Range can be useful because it gives you an idea of how an entire set of data looks, not just the middle. For example, if I told you that the average video game at Games Galore costs \$50, you might think that you can't afford a game. But if I told you that games at Games Galore range from \$10 to \$70, now you feel like there might be some games there you can afford to buy. Another phrase used for range is the "variation."

Date:	Teacher:	

Mean, Median, Mode, and Variation Practice

Directions: Use the table below to answer the questions.

Math Test Grades						
<u>Swann's Class</u>	<u>Grade</u>	<u>Johnson's Class</u>	<u>Grade</u>	<u>Taylor's Class</u>	<u>Grade</u>	
Timmy	100	Mikey	55	Andre	75	
Jimmy	66	Raph	88	Johnnie	78	
Sammy	100	Don	92	Terrance	81	
Molly	61	Leo	100	Liz	100	
Bobby	93	Mickey	98	Amanda	88	
Joey	63	Minnie	98	Jay	83	
Harry	93	Goofy	100	Lewis	86	
Sally	65	Daffy	89	Cassondra	100	
Sandy	97	Bugs	90	Rachel	92	

Math Test Grades

1. According to the median, which class did the best on the test?

- 2. If we use the <u>mean</u> (or average), which class performed the best on the test?
- 3. Which class had the greatest variation in scores? (find the range)
- 4. If we combined all 3 classes together, what would the **mode** of the data be?

Name:

Name:		Date:	e: Teacher:		
	Ra	nge, Median, I	Mode and Me	ean	
Solve each proble	em:				
	n, mode, and	oks at the store. Th I range for this set ()0, \$12.00, \$16.00,	of data.	ook is listed below. Find the 21.00	
Mean:	Me	dian:	Mode:	Range:	
mean for the	set of data.	ving items for his cl ers: \$14.25, tissues		inge, mode, median, and : \$30.50	
Mean:	Me	dian:	Mode:	Range:	
3. Here are two	students' te	st scores for the qu	arter:		
Laura - 88, 79	9, 83, 89, 98,	96, 91, 84, 87	Ashley - 77, 63	, 100, 99, 98, 84, 86, 87, 95	
According to the student did bett					
Which student h the range) in the		•			
2.			cream flavor was.	The responses are below.	
Chocolate Cookie Dough Chocolate Cookie Dough	Mint Mint Carmel Vanilla	Strawberry Chocolate Vanilla Chocolate	Chocolate Vanilla Mint Rocky Road	Vanilla Rocky Road Vanilla Strawberry	

What is the *modal* flavor? (What is the mode of the data?)

Name: _		Teacher:	Date:	Score:
1	121 ÷ 11	 Round to nearest tenth: 4.989 	³ 40 – 31.85	⁴ 5 ÷ 100
5	Find the LCM: 12, 4	$\frac{1}{2} \cdot \frac{2}{3}$	$\frac{1}{4} + \frac{5}{4}$	⁸ 8-3 • 2 + 7
9	56 ÷ 4	¹⁰ Round to nearest whole: 52.78	¹¹ 12 .2 + 6.85	¹² 12 • 1000
13	Find the GCF: 6, 18	$\frac{14}{5} \cdot 15$	$\frac{15}{6} - \frac{2}{3}$	¹⁶ (6 ÷ 3) • (4 • 5)
17	8.82 ÷ 9	¹⁸ Round to the nearest hundredth: 3.8214	¹⁹ 1.13 + 2.25	²⁰ . 5 • 1000

Skill Survey 12 (C1)

Name:		Teacher:		
21	Find the LCM: 9, 6	$\frac{1}{2} \div 4$	$\frac{8}{4} - \frac{4}{4}$	²⁴ 3 • 7 – 8
25	5 • 13	²⁶ Round to nearest hundred: 75.64	²⁷ 23.97 – 12.7	²⁸ 58 ÷ 1000
29	Find the GCF: 27, 36	$8 \div \frac{1}{4}$	$\frac{8}{12} - \frac{2}{3}$	32 (7 + 8) + (2 • 4)
33	12 • 30	³⁴ Round to nearest tenth: 56.34	³⁵ 6.7 – 4.05	³⁶ 5.2 • 100
37	Find the LCM: 5, 6	$\frac{38}{4} \cdot \frac{3}{15}$	$\frac{5}{7} + \frac{2}{7}$	40 12 \div 3 – 4 + 8

Skill Survey 12 (C1)

Name:		Teacher:	Date:	Score:
1	93 ÷ 31	 Round to nearest hundreds: 6421 	³ 45.6 + 4.40	⁴ 9281 ÷ 100
5	Find the GCF: 9, 15	$\frac{3}{4} \cdot \frac{1}{3}$	$\frac{1}{6} + \frac{1}{2}$	⁸ 5+4-2 • 2
9	57 ÷ 3	¹⁰ Round to nearest tens: 786.2	¹¹ 18.3 – 8.8	¹² 23.22 • 100
13	Find the LCM: 2, 3	$\frac{1}{2} \div 5$	$\frac{15}{6} - \frac{7}{6}$	16 (3 • 5) – (1 • 10)
17	7.24 ÷4	¹⁸ Round to the nearest whole number: 995.31	¹⁹ 6.37 + 0.82	²⁰ 9452.31 ÷ 10

Skill Survey 13 (C1)

Name:		Teacher:		
21	Find the GCF: 12, 16	$\frac{7}{8} \cdot \frac{4}{3}$	$\frac{5}{13} + \frac{6}{13}$	²⁴ 5 • 4 ÷ 2
25	14 • 5	 Round to nearest tenths: 32.454 	²⁷ 9.1 – 2.6	²⁸ 59.8 • 10
29	Find the LCM: 4, 8	$6 \div \frac{1}{4}$	$\frac{1}{3} - \frac{1}{4}$	³² 3 + 6 • 2
33	11 • 19	³⁴ Round to nearest hundredths: 0.6592	³⁵ 3.5 + 5.8	³⁶ 5964 ÷ 10
37	Find the GCF: 24, 8	$38 3 \cdot \frac{5}{8}$	$\frac{39}{5} + \frac{4}{5}$	⁴⁰ 1 • 5 + 4

Skill Survey 13 (C1)