3rd Grade EOG Practice Homework

Common Core Standards _3.OA, 3.MD, 3.NF

Name: _____
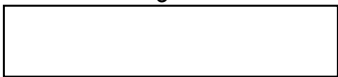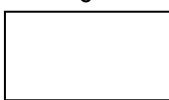
Week of **May 1, 2017**

Monday
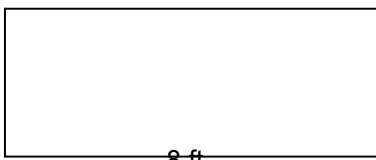
Word Problem	Show your work. Circle your final answer.	
1. Mrs. Ericson made sandwiches for her 2 children. Each sandwich was the same size. After lunch, each child had a different amount of sandwich leftover. Elisa had 3/8 of her sandwich left. Carl had ¾ left. Who had more sandwich leftover?	Explain how you know using numbers, words and pictures.	
2. **"The Watering Can"** a. Noah filled a watering can with 48 liters of water. He used the same amount of water to pour into each of his 6 flowerpots. If Noah used all of the water, then how much water did he pour into each pot? b. Shortly after that, Noah's cat knocked over a total of 12 liters of water. The same amount of water spilled from each flowerpot. How many liters of water spilled from each flowerpot? **Show your work to the right.**	a.	b.
3. Richard was outside for 124 minutes. • He spent 40 minutes riding his bike. • He spent 25 minutes playing on the swings. • Richard spent the rest of the time playing soccer with his friends. How much time did Richard spend playing soccer with his friends? Write an equation to match the problem then solve it.		**Extension**- How many hours did Richard spend outside?

Tuesday (3rd Grade)

Word Problem	Show your work. Circle your final answer.
1. Mrs. Cooke's third grade class would like to raise money to go on a field trip to Sea Life Aquarium. The cost for each student ticket is $9.95. Mrs. Cooke has 17 students in her class. Her students decided to raise money for the trip by selling cookies. They raised a total of $93. ***About*** how much more money does Mrs. Cooke's class need to raise in order for all of her students to go on the field trip?	
2. Jane's class is building a robot for a competition. The robot must follow a path around a rectangle one time. The robot must travel at least 25 units	**Show your work and explain your thinking here.**

before advancing to the next round. Which path could Jane's class choose in order to advance to the next round? 9 ┌────────────┐ └────────────┘ 2 5 ┌──────┐ 6 └──────┘	
3. Use question 2 above to help you answer this question: During the second round, the robot must place a rug over an area of at least 25 square units. Will the robot be able to use both rectangles above to complete this task? Why or why not?	**Show your work and explain your thinking here.**

Wednesday (3rd Grade)

Word Problem	Show your work. Circle your final answer.	
1. Matt says 3/3 is equivalent to 1. Elisa says 3/1 is equivalent to 1. Who is correct?	Use pictures and words to explain your thinking.	
2. Mr. Hunt's yard is in the shape of a rectangle. The distance around his yard is 42 feet. One side of his yard measures 12 feet. What is the area of Mr. Hunt's yard?		

3. What is the area of this rectangle?
 	
4 ft. ┌────────────┐
     │   │
     └────────────┘
        8 ft.
	EXTENSION- If you divided the rectangle into two equal parts, what would be the area of each part? What fraction represents each part?	**EXTENSION**- If you divided the rectangle into four equal parts, what would be the area of each part? What fraction represents each part?

Thursday (3rd Grade)

Word Problem	Show your work. Circle your final answer.
1. Caleb and Hannah bought two melons that were the same size. • Caleb cut his melon into fourths. • Hannah cut her melon into eighths. • Hannah ate 4/8 of her melon while Caleb ate an equal amount of his melon.	

What fraction of his melon did Caleb eat?	

2. Third grade teachers at Flying Saucer Elementary School would like to purchase math tools for their classrooms. The price of each tool they would like to buy is listed in the table below.

Math Tools	
Place Value Blocks	$10.00
Calculators	$8.00
Clocks	$4.00
Pattern Blocks	$4.00

There are two third grade teachers. Both teachers will order 7 sets of each math tool. How much money will each teacher spend?

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3. **"Preparing to Go Grocery Shopping"**

A. Mr. Orr checked the pantry to see what he needed to buy at the grocery store. There were 4 boxes of granola bars with 8 bars in each box. There were also 3 granola bars lying on a shelf. How many granola bars were there in all?

8 granola bars	8 granola bars	8 granola bars	8 granola bars

"Preparing to Go Grocery Shopping"

B. Before going to the grocery store, Mr. Orr decided to place all of the granola bars into bags with 5 bars in each bag. How many bags did Mr. Orr use? Write an equation to match the problem then solve it.

4th Grade EOG Practice Homework
*Common Core Standards 4.NF, 4.NBT, 4.OA, 4.*MD

Name: _____

Week of **May 1, 2017**

Monday

Word Problem	Show your work. Circle your final answer.
1. Tulio's plant was 40 inches tall in May. In June, it grew 4 inches. In July, it grew 3 times as much as it did in June. A. Write an equation to find out how tall Tulio's plant is now using P to represent the unknown quantity. B. Solve your equation below then fill in the table.	A.

B. Record the plant's height each month.

Month	Height
May	_____ft., _____ in.

| | June | _____ft., _____ in. |
| | July | _____ft., _____ in. |

2. A group of friends are playing with a toy train track. They decide to take the train track apart and give each friend a piece of the track. Billy has 6/8 of a foot of track. Jose has 2/6 of a foot of track. Timothy has 3/4 of a foot of track. Jonathan has 5/6 of a foot of track.
 	
Draw pictures and write an expression using the >, <, or = signs to show who has less of the train track between the boys.
 	
A. WHO HAS LESS - Jonathan or Billy?
B. WHO HAS LESS - Jose or Timothy?
C. WHO HAS LESS - Billy or Timothy?
 	
 Draw a picture to support each solution.
	A. WHO HAS LESS - Jonathan or Billy?
	_____
	   How do you know?
	
	B. WHO HAS LESS - Jose or Timothy?
	_____
	   How do you know?
	
	C. WHO HAS LESS - Billy or Timothy?
	_____
	   How do you know?

3. **"Building Sandcastles"** a. Dennis and Cody are building a sandcastle at the beach. They need 3½ buckets of sand for the castle they have in mind. Dennis fills two buckets full of sand but lost some. Now, he has 1¾ buckets. Cody fills two buckets full of sand, too, but now he has 1 ½ buckets. If Dennis and Cody combine their buckets of sand, will they have enough to build their sandcastle? Explain. b. **Extension**- Josh wants to help Dennis and Cody build an even bigger sandcastle! He claims that he has enough sand in his buckets for them to have 5 combined buckets of sand. How many buckets of sand does Josh have? **Use numbers and pictures to show your work.**	a.	b. **Extension**-

Tuesday (4ᵗʰ Grade)

Word Problem	Show your work. Circle your final answer.
1. Below are the finishing times for cars during a drag race. | Car	Finishing Times in Minutes
A	4.19
B	4.4
C	4.09
D	4.0		Use the information in the table to fill in the chart below. | First Place	
Second Place	
Third Place	
Fourth Place		
2. Jillian said, "I know that 20 times 7 is140. If I take away 2 sevens, that leaves 128. Then, I can divide 128 by 7 to get a quotient of 18." a. Solve this problem. b. Explain to Jillian why her thinking is or is not correct.	a. b.

3. Aaron is 63 inches tall. In order to ride a roller coaster at an amusement park, a person must be 5 feet tall. a. Is Aaron tall enough to ride a roller coaster? How do you know? b. How many inches shorter or taller is he than 5 feet?	a.	b.
4. Kelly has 7 ¼ yards of rope. She cuts 3 inches off each end of the rope. How many inches of rope does she has left?	**Extension**- Kelly divides the remaining rope into 3 equal pieces for a craft project. What is the length of each piece of rope?	

Wednesday (4ᵗʰ Grade)

Word Problem	Show your work. Circle your final answer.
1. There are 1,632 students at Forest Ridge Elementary School. Sixty-eight students shop at the Eagle's Nest school store each day. a) How many students shopped at the school store after 5 days? b) How many days will it take for all of the students at Forest Ridge Elementary to shop at the store?	
2. John, Dana and Douglas painted their bedrooms. John painted 2/8 of a wall in his bedroom. Dana and Douglas each painted ¾ of a wall in their bedrooms. a) Draw a picture to show how much of the wall each person painted. b) Write an equation to show how much wall John, Dana and Douglas painted altogether.	**EXTENSION-** While painting in another bedroom, John painted 1/4 of a wall and left the remainder for Dana and Douglas to paint. Dana and Douglas painted the same amount of wall space. What fraction of the wall did each person paint?
3. a) Create a word problem that could be solved if you multiply a fraction by a whole number.	**EXTENSION-** Repeat steps a-c for multiplying a mixed number by a whole number.

b) Represent the word problem using both a picture and an equation. c) Solve your problem. Show your work.	

Thursday (4ᵗʰ Grade)

Word Problem	Show your work. Circle your final answer.
1. Karime biked ¾ of a mile on Monday. On Tuesday, he biked 5 times this distance. The distance Karime biked on Tuesday is between which two whole numbers? a. between 0 and 1 mile b. between 1 and 2 miles c. between 3 and 4 miles d. between 4 and 5 miles	**EXTENSION**- Explain how you could figure out the answer without actually solving the problem.
2. Trey and Jalen belong to different Boy Scout troops. Each boy was selling raffle tickets for his troop. • Trey sold 79 tickets and was awarded a prize point for every 4 raffle tickets sold. • Jalen's scout leader only awarded a prize point for every 3 raffle tickets sold. However, Jalen ended up earning the same number of points as Trey. How many tickets could Jalen have sold?	

3. Sydney was conducting research for a report on snakes and found information on record-setting snake lengths. She made a chart listing the names of snakes and their lengths in feet. Complete her chart to show the actual length of each snake in inches.							a. Describe the relationship between the snakes' lengths in feet to their lengths in inches.

Record Setting Snake Lengths

	feet	inches			feet	inches
Corn Snake	6			Northern Copperhead	4	
Smooth Green Snake	2			Queen Snake	3	
Eastern Cottonmouth	5			Northern Pine Snake	7	

b. None of the snakes on Sydney's chart are nearly as long as Fluffy, a Reticulated Python at the Columbus Zoo in Ohio. Fluffy measures an incredible 8 yards long! How long does Fluffy measure in feet? Explain your Thinking using pictures, numbers and words.

c. How many times larger is Fluffy than the Corn Snake? Explain how you know using pictures, numbers and words.
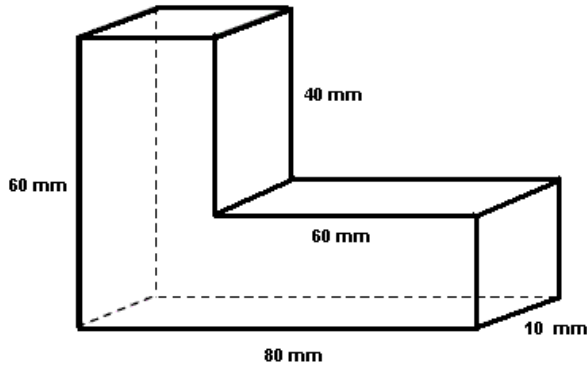
5th Grade EOG Practice Homework
Common Core Standards _5.NF, 5.NBT, 5.MD

Name: _____

Week of **May 1, 2017**

Monday

Word Problem	Show your work. Circle your final answer.
1. Lucy is making a smoothie by following the recipe below. **Sunshine Smoothie** 1 ⅓ cups of banana ½ cup of yogurt 1 cup of strawberries ¾ cup of orange juice Place all ingredients in blender and blend until smooth. a. Will this recipe make enough smoothie so Lucy and her 3 friends can get at least 1 cup of smoothie? Explain. b. How much smoothie remains after Lucy gives each of her friends ¾ cup of smoothie? **Show your work.**	a. b.
2. Tom just bought a cool new fish tank and 5 clown fish. He wants to fill up the tank immediately. Help Tom figure out the volume of his fish tank so he will know how much water he needs.	

40 mm
60 mm
60 mm
10 mm
80 mm
www.analyzemath.com

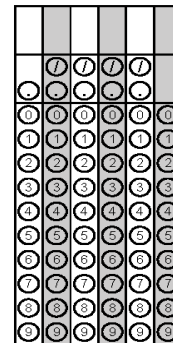|	

3. Brayden and his cousin Kayla live twenty miles away from each other. On the same day, Brayden records 1.046 inches of rain at his house and Kayla records 1.062 inches of rain at her house.
 	
   a. Write the amount of inches Brayden and Kayla recorded in **word form** and in **expanded form.**
 	
   b. Compare the amount of rainfall Brayden recorded to the amount Kayla recorded using <, > or =.
 	
   c. Whose house received less rain that day? How much less?
	a.
	
	b.
	
	c.

Tuesday (5ᵗʰ Grade)

Word Problem	Show your work. Circle and grid your final answer.
1. Rosa's car tank has 9.8 gallons of gas. She decides to stop by a gas station and completely fill up her tank. Her car's tank will hold a total of 17.5 gallons of gas. If each gallon of gas costs $3.85, then **about** how much money did Rosa spend on gas?	Grid your solution here:
2. **"How Far Did The Frog Jump?"** **Part 1- Jumps in Feet** Create a line plot to display the jump data below. Include the title. Label the horizontal axis with the unit of measure. <table><tr><td>1/4</td><td>5/8</td><td>1/8</td><td>2/4</td><td>5/8</td></tr><tr><td>1/4</td><td>2/4</td><td>7/8</td><td>3/8</td><td>3/4</td></tr></table>	**Part 1** ⟵――――――――――――⟶
3. **Part 2** **Use your line plot above to answer these questions.** A) How many jumps were less than one-half of a foot?	**Show your work below for parts A, B, C and D.** **A.** **B.**
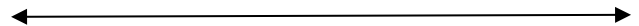
B) How many jumps were greater than one-half but less than 6/8? C) What is the combined length of the jumps? D) What is the difference in length between the longest jump and the shortest jump?	**C.** **D.**

Wednesday (5th Grade)

Word Problem	Show your work. Circle and grid your final answer.
1. Study the information in the table below.	Write a letter to your teacher describing the pattern you noticed in the table.

Expression	Expression as a Question	Quotient
2 ÷ 2	How many groups of 2 are in 2?	1
2 ÷ 0.2	How many groups of 0.2 are in 2?	10
2 ÷ 0.02	How many groups of 0.02 are in 2?	100
2 ÷ 0.002	How many groups of 0.002 are in 2?	☺

What do you think 2 ÷ 0.002 will equal? _____

Dear _____,

_____
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_____,
_____

| **2.** 5th graders at Statesville Road Elementary entered a cake baking contest. The cakes weighed a total of 1.9 lbs. Each | **Extension-**
Write your own multiplication or division word problem |

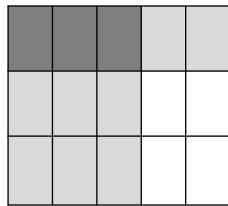cake weighed 0.38 lbs. How many cakes were entered in the contest?

Use the decimal grids below to help you show a way to solve this problem.
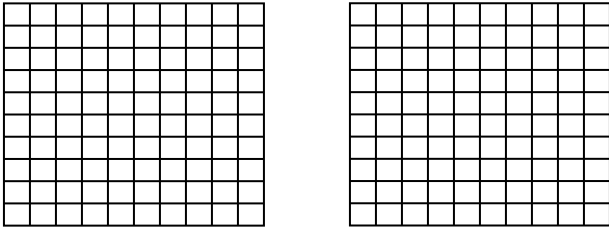
using decimal numbers. Solve it by using the decimal grids below.
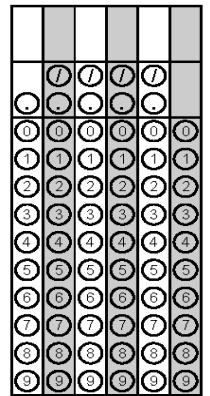
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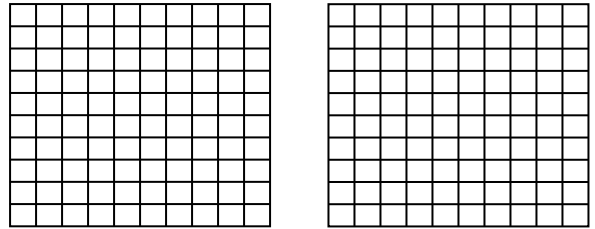
3. The square below represents 1 square unit.

Which expression below represents the area of the dark gray section?

a. 5/3 x 3/1 square units
b. 3/5 x 1/3 square units
c. 1/5 x 3/3 square units
d. 5/3 x 1/3 square units

Explain your answer.

What is the area of the square? **Grid yo the right.**

Thursday (5ᵗʰ Grade)

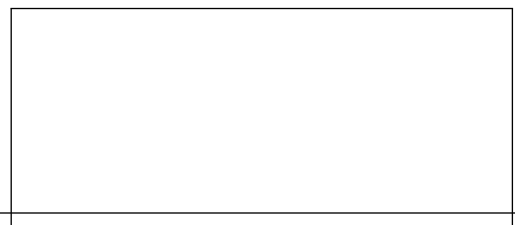| Word Problem	Show your work. Circle your final answer.
1. Order the following expressions from least to greatest without solving them. **Explain your reasoning to the right.** **9/6 x 348,980 7/8 x 348,980 12/12 x 348,980**	**Explain your reasoning here.**
2. Below is a recipe for vanilla cupcakes. **Vanilla Cupcakes** 2 cups flour ½ teaspoon salt 2 teaspoons baking powder ½ cup butter, softened ¾ cup sugar 2 eggs 1 cup milk ½ teaspoon vanilla **Yields: 24 cupcakes** Bella wants to bake one-third of the recipe. a. How many cupcakes will she bake?	a. Use the number line to help you find your answer. b. Use an area model to help you find the answer.

b. How much vanilla will Bella use? c. Uh oh! Now, Bella wants to bake enough cupcakes for the 72 students on her grade level! How much of each ingredient will she need?	c. Show your work here.
3. Is 0.013 more or less than halfway between 0.01 and 0.02? How do you know? **Show how you know on the number line below.** ⟵————————————————⟶	Pretend you are a teacher explaining this to your students. Use your number line to help you explain.