

Georgia Online Formative Assessment Resource (GOFAR)

GMAS Test review 16-17

Name: _____

Date: _____

Georgia Online Formative Assessment Resource (GOFAR)

Aiden Smith 123 Pine Street Springville, UT 84663	DATE: <u>July 4, 2010</u>	101
PAY TO THE ORDER OF: <u>Electricity Payment</u>	\$ <u>362</u>	
		DOLLARS
Western Citizens Bank Blanco County, UT 00787		
FOR	<u>Aiden Smith</u>	
⑆74894934⑆ 6793868122⑆ 0101⑆		

Aiden Smith 123 Pine Street Springville, UT 84663	DATE: <u>July 4, 2010</u>	102
PAY TO THE ORDER OF: <u>House Payment</u>	\$ <u>1,070</u>	
		DOLLARS
Western Citizens Bank Blanco County, UT 00787		
FOR	<u>Aiden Smith</u>	
⑆74894934⑆ 6793868122⑆ 0102⑆		

Write each amount in words.

Part C

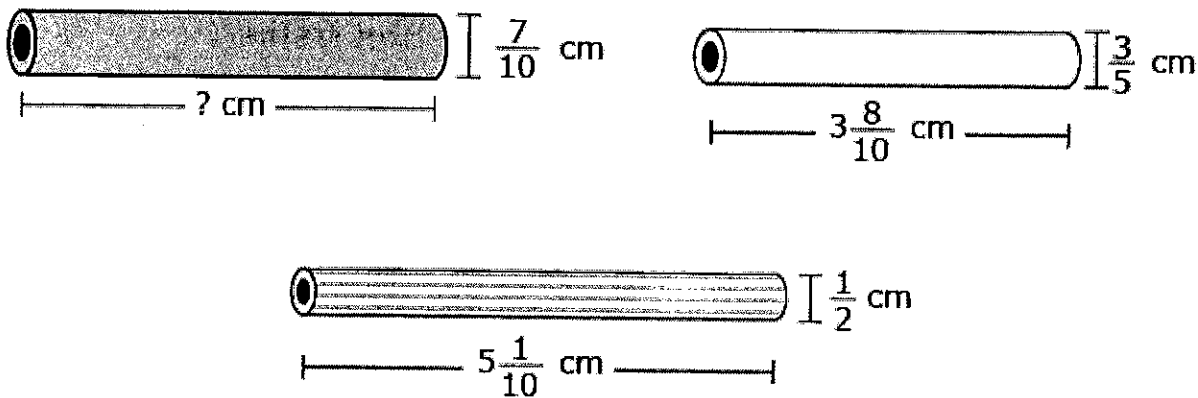
In 6 months, Aiden pays a total of \$162 for his home phone and a total of \$618 for his cell phone. He pays an equal amount each month. What is the amount he pays in one month for his home phone and cell phone together?

Part D

Aiden pays \$89 each month for cable TV. He worked the multiplication problem below and stated that he pays \$267 for the whole year.

**Be sure to complete ALL parts of the task.
Write your answer and show your work on the paper provided.
Do NOT type your answer in the text box below.**

Q 4. Emily makes a necklace with three types of beads. The length and width of each bead is shown in centimeters (cm).



Part A

The striped bead is $5\frac{1}{10} \text{ cm}$ long. Write this length as a decimal.

Part B

The widths of the striped bead and the white bead are $\frac{1}{2} \text{ cm}$ and $\frac{3}{5} \text{ cm}$. Write a comparison of these two widths using the symbols $>$, $<$, or $=$.

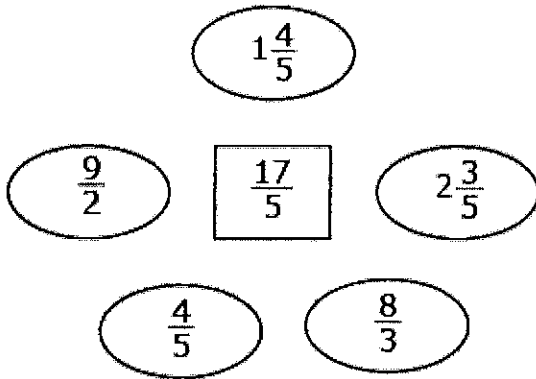
Part C

Emily does the work shown below to determine how much longer the striped bead is than the white bead.

$$5\frac{1}{10} = \frac{50}{10}$$

$$3\frac{8}{10} = \frac{38}{10}$$

$$\frac{50}{10} - \frac{38}{10} = \frac{12}{10}$$



Part A

Which two fractions or mixed numbers have a sum of $\frac{17}{5}$? Show your work.

Part B

Solve the subtraction problem $2\frac{3}{5} - 1\frac{4}{5}$. Make a fraction model to support your answer.

Part C

Compare the fractions $\frac{9}{2}$ and $\frac{8}{3}$. Which symbol ($>$, $<$, or $=$) should be placed in the box to make the number statement true?

$$\frac{9}{2} \square \frac{8}{3}$$

Explain how you know which symbol to use.

**Be sure to complete ALL parts of the task.
Write your answer and show your work on the paper provided.
Do NOT type your answer in the text box below.**

Q 7. A candy shop sells fudge in two sizes. The weight of each type of box is shown in the picture below.

Hiking Trails

Name	Length (miles)
Elkhorn	$7\frac{3}{10}$
Meadowland	$2\frac{9}{10}$
Mountaintop	$6\frac{7}{10}$
Sycamore	$4\frac{3}{10}$

Part A

Martin hiked the Sycamore trail and the Mountaintop trail last week. What was the total distance he hiked? Show your work.

Part B

Merrilee hiked the Elkhorn trail and Kevin hiked the Meadowland trail. How much farther did Merrilee hike than Kevin? Show your work.

Part C

Tynan wants to hike 3 different trails totaling at least 15 miles. Explain whether or not there is more than one combination of 3 different trails she can choose that will be a distance of at least 15 miles. Show your work.

**Be sure to complete ALL parts of the task.
Write your answer and show your work on the paper provided.
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Q 9. Joel is practicing his multiplication skills. He is looking for patterns when he multiplies a number by 35.

Part A

Joel multiplied 35×12 using the area model shown.

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elementary school.

Grade	Number of Students	Number of Tables
K	87	
1	145	
2	109	
3	126	
4		
5		

Part A

What is the total number of students in grades K through 3? Show your work.

Part B

The elementary school has 697 students in all. What is the total number of students in grades 4 and 5 together? Show your work.

Part C

Grade 4 has 30 more students than grade 5. How many students are in grade 4, and how many students are in grade 5?

Part D

A table in the cafeteria can have up to 9 students. How many tables are needed for each grade?

<p>Be sure to complete ALL parts of the task. Write your answer and show your work on the paper provided. Do NOT type your answer in the text box below.</p>

Q 11. A sheet of scented stickers has 18 stickers. There are 36 sheets of scented stickers in one package.

Part A

Write the rounded values in order from least to greatest. Use the appropriate comparison symbol ($>$, $<$, or $=$) in your answer.

Part B

Brody states that the rounded values for 416,283 are always less than the original value of the number. Do you agree or disagree with Brody? Use the rounded numbers in Part A to explain why you agree or disagree.

Part C

If all of the rounded numbers are plotted on a number line, which numbers would be 200 or less away from 416,283? Explain your answer.

**Be sure to complete ALL parts of the task.
Write your answer and show your work on the paper provided.
Do NOT type your answer in the text box below.**

Q 13. A fruit stand has four kinds of fruit sorted into bags.

- The bag of oranges is 6 times the weight of the bag of lemons.
- The bag of lemons weighs 4 times as many pounds as the bag of limes.
- The weight of the bag of lemons is 8 pounds.

Part A

Write two number sentences to show how many pounds the bag of oranges weighs and how many pounds the bag of limes weighs. Explain how you know what operation to use for each number sentence.

Part B

A bag of apples weighs 40 pounds. How many pounds more or less than the bag of oranges in Part A do the apples weigh? Use an equation to show how you got your answer.

Part C

The lemons and limes are combined in one bag. What is the difference between the weight of the bag of apples and the weight of the bag of lemons and limes? Use equations to explain how you got your answer.

Part D

Draw a model using base 10 blocks that Mr. Lee could have drawn. Write the value of your model.

Which two numbers that Mr. Lee wrote on the chalkboard are less than the value of your model?

**Be sure to complete ALL parts of the task.
Write your answer and show your work on the paper provided.
Do NOT type your answer in the text box below.**

Q 15. A worker has a piece of rope. He marked it with a felt-tip to show where he would cut the rope into seven pieces. Then he measured the length, in meters, of each piece he had marked.

Part A

One piece is 5.6 meters long. Another piece is 5.06 meters long. Write a number sentence that compares these two lengths using $>$, $<$, or $=$. Explain why your number sentence is correct.

Part B

The worker wrote an inequality comparing the lengths, in meters, of two other pieces marked on the rope.

$$4.\square 9 < 4.36$$

The number that goes in the box is the greatest number that still makes the number sentence true. What is the length, in meters, of the piece with the missing number? Explain how you got your answer.

Part C

The worker wrote the lengths of the last three pieces in fraction form.

$$\frac{6}{10} \text{ meters} \quad \frac{4}{10} \text{ meters} \quad \frac{43}{100} \text{ meters}$$

Rewrite these fractions as decimals. What is the length of the whole rope, in meters, before the worker cuts it? Show your work.

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Which addition problem is equivalent to the one shown in the model?

A) $2\frac{1}{5} + 3\frac{1}{5} = 5\frac{2}{5}$

B) $2\frac{1}{6} + 3\frac{1}{6} = 5\frac{2}{6}$

C) $2\frac{3}{5} + 3\frac{2}{5} = 5\frac{5}{5}$

D) $2\frac{3}{6} + 3\frac{2}{6} = 5\frac{5}{6}$

Q 18.

What is another way to write 14,562?

A) fourteen thousand and sixty-two

B) four thousand five hundred sixty-two

C) fourteen thousand five hundred sixty-two

D) one hundred forty thousand five hundred sixty-two

Q 19.

The census of a city counts 99,896 families with 378,533 children and 121,323 adults. According to this census, what is the **best** estimate of the city's population?

A) 600,000 people

B) 500,000 people

C) 121,000 people

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D)218

Q 24.

A group of people ordered pizza for lunch. At the end of lunch, there were $2\frac{1}{3}$ cheese pizzas and $\frac{2}{3}$ pepperoni pizza left over. How much total pizza was left over?

A) $2\frac{1}{2}$ pizzas

B) 2 pizzas

C) 3 pizzas

D) 4 pizzas

Q 25. At the grocery store, Shana's father bought six items with the following prices: \$2.49, \$1.19, \$0.99, \$0.99, \$5.39, and \$1.09. Assuming there is no sales tax, what is the best estimate of the total bill?

A) \$9.00

B) \$12.00

C) \$13.00

D) \$15.00