

Students,

The AMI material is either in paper form, or can be accessed in Google Classroom. The AMI work in Google Classroom is listed as AMI for each grade level. The codes for accessing the new Google Classroom AMI work are:

6th grade ;Use the + sign in the top right of the Google Classroom to open a new class. The code for this new AMI class is **4t4wmhe**.

5th Grade ;Use the + sign in the top right of the Google Classroom to open a new class. The code for this new AMI class is **gk4yo55**.

Share all completed documents with Mr. Hartle to receive feedback on your success.

AMI Packet Material and Directions

The AMI paper packet of material was created to be new, yet familiar work to keep you thinking. The order in which this work is done does not really matter, however each week was designed to be similar.

Each week you are to do:

One Sudoku puzzle

One Magic Square

Two Mash-UP math puzzles

One page of problem solving problems

If you need assistance you can email me at clair.hartle@norfolk.k12.ar.us or you can text your question to 972-571-3032.

When you complete a page, take a picture of the completed work and text it to 972-571-3032. Make sure to include your name with the text. I will then reply with feedback on your work.

I will not be picking up paper packets.

The assigned projects are still intact and will be due at school when we return. If you are having trouble with these you can contact the number above or email me your questions at clair.hartle@norfolk.k12.ar.us.

WEEK 1 - MATH

Complete the Magic Squares by filling in the missing spaces. The Magic Sum is given above each square. The three numbers in each row, column, and diagonal should add up to give the Magic Sum. Note: A number can not be used more than once in any square

$$4/6 - 4/10$$

Magic Sum = 18

	6	
5		2

4/6 - 4/10 SODUKU

3		2		4
6			9	
8	9		3	
1	6	4	8	3
			1	4
3	1		7	6
	9			
		1	5	2



math challenge

#1 of 10

of the day

$$\text{Koala} + \text{Koala} - \text{Koala} = \text{Koala}$$

$$3 \times \text{Koala} = 33$$

$$\text{Koala} - \text{Monkey} = 7$$

$$\text{Koala} - 3 = \text{Monkey}$$

$$\text{Koala} = ?$$

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Get more weekly math challenges at www.mashupmath.com

2020 Math Puzzle 1- student sheet

Koala-

Camel-

Bird-

Gorilla-

$$\text{Garfield} + \text{Garfield} + \text{Garfield} = 99$$

$$101 = \text{Garfield} + \text{Odie (dog)} + \text{Odie (dog)}$$

$$\text{Odie (dog)} - \text{Jon} = 5$$

$$\text{Jon} + \text{Garfield} + \text{Odie (dog)} = ?$$

Garfield -
Odie (dog) -
Jon -
? -

Math Problems- Week 1 - 5th & 6th AMI

Lining Up

At School Street Elementary, the students in Ms. Wolfe's 3rd grade line up in a straight line. When the teacher counts the students from the front of the line, Isabelle is #14. When the teacher counts from the back of the line, Isabelle is #8.

How many students are in line altogether?

Show your work using pictures, numbers or symbols.

All Aboard

A train can hold 78 passengers. The train starts out empty and picks up 1 passenger at the 1st stop, 2 new passengers at the 2nd stop, 3 new passengers at the 3rd stop and so forth. After how many stops will the train be full? Show your work using pictures, numbers or symbols.

Bat-tastic

It is Halloween, and Jordan and five friends want to dress up as bats. Each costume has a wingspan of 2 and $\frac{1}{2}$ feet each. If Jordan and five friends stretched out all of their wings tip to tip, how far would they reach? Show your work using pictures, numbers or symbols.

How Many Boxes?

The Halloween store has 4 separate large boxes, and inside each large box there are three separate small boxes, and inside each of these small boxes there are 2 separate smaller boxes filled with Halloween items. How many boxes, counting all sizes, are there all together? Show your work using pictures, numbers or symbols.

Horsing Around

Zachary travels on a journey of 50 miles. He spends half of his time riding his horse and half of his time walking. When he rides his horse, he covers 9 miles every hour. When he walks, he covers $3\frac{1}{2}$ miles every hour. How much time does it take him to complete the journey? Show your work using pictures, numbers or symbols.

WEEK 2 MATH

MAGIC SQUARE

Complete the Magic Squares by filling in the missing spaces. The Magic Sum is given above each square. The three numbers in each row, column, and diagonal should add up to give the Magic Sum. Note: A number can not be used more than once in any square

$$3/30 - 4/3$$

Magic Sum = 15

3		
	9	2

Sudoku

$$3/30 - 4/3$$

	9		8		2	7	5	
					3	1	6	4
3								9
	1	4						
2						3		
5	3		1					
				1			2	
9	8			4				
	2			5				7

MATH CHALLENGE

$$\begin{array}{c} \text{Halloween Mask} \end{array} + \begin{array}{c} \text{Halloween Mask} \end{array} + \begin{array}{c} \text{Halloween Mask} \end{array} = 42$$

$$\begin{array}{c} \text{Halloween Mask} \end{array} + \begin{array}{c} \text{Halloween Mask} \end{array} = 17$$

$$\begin{array}{c} \text{Halloween Mask} \end{array} = \begin{array}{c} \text{Halloween Mask} \end{array}$$

$$\begin{array}{c} \text{Halloween Mask} \end{array} = \begin{array}{c} \text{Halloween Mask} \end{array} \times \begin{array}{c} \text{Halloween Mask} \end{array}$$

$$\begin{array}{c} \text{Halloween Mask} \end{array} + \begin{array}{c} \text{Halloween Mask} \end{array} + \begin{array}{c} \text{Halloween Mask} \end{array} = ?$$

Star Wars Math Challenge student sheet

Kylo Ren =

Luke Skywalker =

BB-8 =

Rebel Pilot =

? =



math challenge

#14 of 17

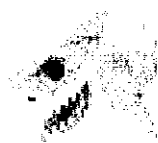
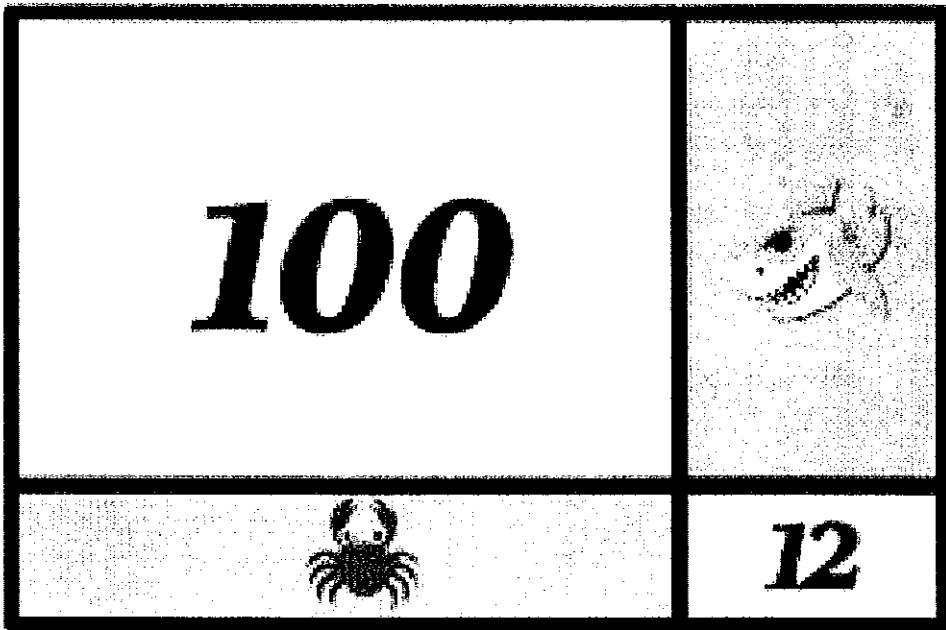
of the day

If the multiplication diagram below represents the value 182, find the value of each emoji.

10



100



Icons provided free by EmojiOne.com

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Student Answer Sheet- Day 14 of 17

(Hint: The whole diagram represents 182 and the two given sections represent 112. How can you distribute the difference of 70 between the two unknown sections?)

Clown Fish =

Octopus =

Shark =

Crab =

Whale =

Area Model:

5th + 6th - Week 2

Rock, Paper Scissors

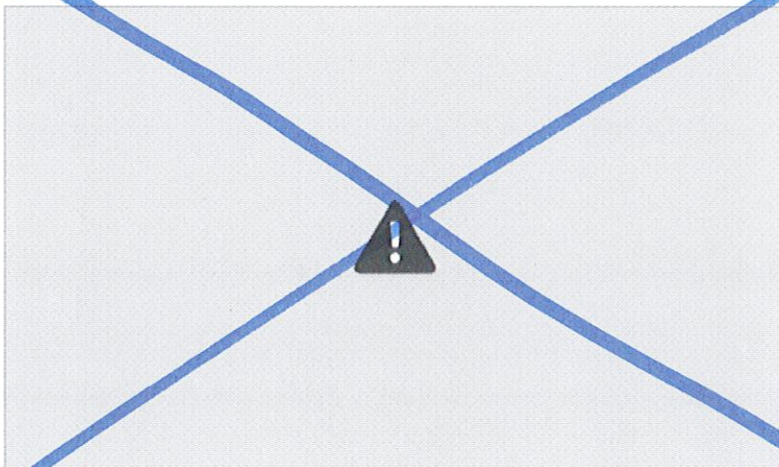
- ① Amir and Blanca play rock, paper, scissors ten times on the first day of school. Amir plays rock three times, scissors six times, and paper once. Blanca plays rock twice, scissors four times, and paper four times. The order they played them in is not known, but none of the games was a tie. Can you tell who won and by how many games?

Caravan of Camels



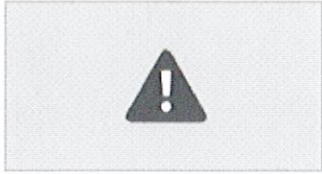
- ② A camel shepherd bought a caravan of camels. On his journey through the desert, he noticed that the camels all had a very bad disease and would be of no use for traveling any further. He returned to the seller and asked for new camels. The seller said, "I will gladly give you the same number of camels that you bought if you can tell me how many camels you started with." The camel shepherd could not remember exactly how many he had bought, but he knew it was less than 100. He remembered that if the camels walked in rows of 2, one walked alone; in rows of 3, one walked alone; in rows of 4, one walked alone; and in rows of 5, one walked alone. How many camels were in the caravan? Show your thinking using pictures, words, or numbers.

What time is it?



The digits on this clock add up to 6. How many times during the day (24 hours) will the digits add up to 6? Show your work using pictures, numbers or symbols.

Handshakes



3 At the end of the Red Sox game, the 10 players and 4 coaches each shook hands with one another. Each person shook hands exactly one time with every other person. How many total handshakes were there? Show your thinking using pictures, numbers or symbols.

WEEK 3 - MATH

4/13 - 4/17

13

MAGIC SQUARE

Each row, column, and diagonal in this square must add up to 24. You may use only numbers between 1 and 12. Not every number will be used, and you may use each number only once (6, 7, and 10 are already used).

	6	7
	10	

Sudoku

4/13 - 4-17

						2		
7	1		9			5	8	
		9	2			4	6	
		8	6		7		4	
		4		5			1	
		1	4					2
	2						9	7
9						8		
			8		6			

599



math challenge

02 of 17

of the day

$$\text{Pineapple} + \text{Pineapple} + \text{Pineapple} = \text{Strawberry}$$

$$\text{Strawberry} \times 1 = \text{Grapes}$$

$$\text{Grapes} + \text{Grapes} = 24$$

$$\text{Watermelon slice} + \text{Pineapple} = 6$$

$$\text{Grapes} + \text{Strawberry} + \text{Watermelon slice} = ?$$

2020 Math Puzzle #2- Student Sheet

Pineapple-

Strawberry-

Grapes-

Watermelon-


?-



math challenge

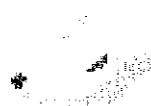
of the day

Find the value of each icon
in the multiplication table below:

0  2



0



12



0



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Student Answer sheet-Day 13 of 17

(Hint: Think about what happens when you multiply values by zero and by one)

Avocado =

Pancakes =

Banana =

Donut =

Coffee =

French Fries =

6th Grade-Math Problem Solving- Week 3

On average, I sleep about 7 hours 45 minutes each day. So, during one year, I sleep for $7.45 \times 365 = 2719.25$ or about 2700 hours. This calculation is not correct. What is the correct answer? (Hint: Think about the minutes as fractional parts of an hour.)

Sheila works 8 hours per day on Monday, Wednesday and Friday, and 6 hours per day on Tuesday and Thursday. She does not work on Saturday and Sunday. She earns \$324 per week. How much does she earn in dollars per hour?

Max is organising a trip to the airport for a party of 75 people. He can use two types of taxi. A small taxi costs \$40 for the trip and holds up to 4 people. A large taxi costs \$63 for the trip and holds up to 7 people.

1.a. If Max orders 6 large taxis, how many small taxis will he need? Show how you figured it out.

b. How much will the total cost be? Show all your calculations.

2. Max can organize the journey more cheaply than this! How many taxis of each type should Max order, to keep the total cost as low as possible? Explain your reasoning, and show all your calculations.