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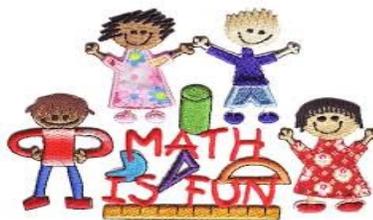
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Mulready Math Facts

Welcome to the First Edition of Mulready Math Facts

Mulready Math Facts will be a newsletter with ideas, suggestions and activities for you to use at home to make math fun, interesting and meaningful. My hope is to have this published quarterly and sent home with the students of Mulready School. I will also post the issues on the Hudson Math Facts Website (www.hudsonmathfacts.weebly.com)

Throughout this newsletter will be games, math vocabulary, activities, riddles, puzzles and sample problems for you to do at home as a family.



Inside this issue:

Focus on Math Facts	2
Fluency expectations from K-4	2
Virtual Manipulatives	2
Help Your Child Prepare for MCAS	3
Vocabulary	3
Test Taking Strategies	3
Puzzles and Games	4
Answers	4

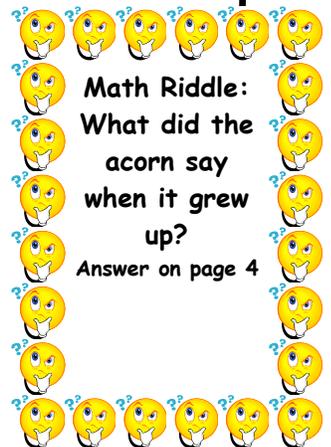
Focus on Math Facts: Fluency in Mathematics

Wherever the word *fluently* appears in a content standard, the word means *quickly and accurately*. It means more or less the same as when someone is said to be fluent in a foreign language. To be fluent is to flow: Fluent isn't halting, stumbling,

or reversing oneself. A key aspect of fluency in this sense is that it is not something that happens all at once in a single grade but requires attention to student understanding along the way. It is important to ensure that sufficient prac-

tice and extra support are provided at home and school to allow all students to meet the standards that call explicitly for fluency.

Continues on page 2



Math Riddle:
What did the acorn say when it grew up?

Answer on page 4

Coming in future editions

- Sample problems for grade 3 & 4
- More web sites
- More vocabulary
- Test taking strategies for Multiple Choice questions

Focus on Math Facts: continued from page 1

What can you do to help your child with fluency? PRACTICE!

It does not need to be flash cards for half an hour, although some children love this, think about times you can “throw out” a fact or two.

While you are in the car—

- There are 3 cars in front of us, each one has 4 tires, how many tires are there altogether?
- Ask as many facts as you can at a red light. See if they can answer more than the last time

At Home—

- I need 6 eggs for my recipe, I have 2 left in this carton how many do I need to take from the other carton?
- Before they play a video game— 1 math fact for every ___ minutes to play.
- Play a math game before playing the video game
- In order to leave the table after dinner give a fact

At the store—

- I want to buy 3 packs of juice, there are 10 boxes in each pack, how many boxes all together?
- I spent \$5.36 I gave the teller \$10.00 what should I get in change? (not facts, but very important!)

Make it part of your routines it will come easier as you go, and your children’s math fluency will improve!

Fluency expectations from K—4

Grade	Standard	Expected Fluency
K	K.OA.5	Add/Subtract within 5
1	1.OA.6	Add/Subtract within 10
2	2.OA.2	Add/Subtract within 20 (know single digit sums from memory)
	2.OA.MA2	Know from memory related subtraction facts of sums of two one-digit numbers
	2.NBT.5	Add/Subtract within 100
3	3.OA.7	Multiply/Divide within 100 (know single digit products by memory)
	3.NBT.2	Add/Subtract within 1000
4	4.NBT.4	Add/Subtract within 1,000,000
	4.NBT.MA5	Know multiplication facts and related division facts through 12x12

Virtual Manipulatives

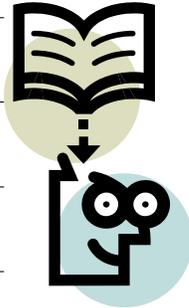
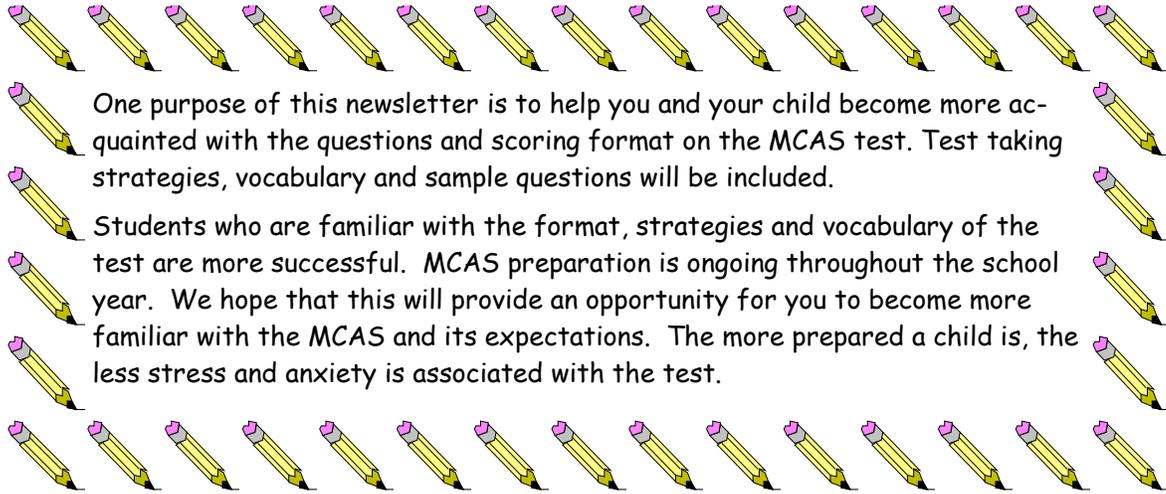
Manipulatives are one of the tools students use while doing math. It is not always possible to have them at home. There is a web site that can help with this

<http://nlvm.usu.edu/en/nav/vlibrary.html>

This site has many different types of manipulatives that kids can use to work out problems. The site is broken down into math strands—Numbers and operations, Algebra, Geometry, Measurement and Probability and Statistics. It is also separated by grades from Pre-K through 12.



Help Your Child Prepare for MCAS



One purpose of this newsletter is to help you and your child become more acquainted with the questions and scoring format on the MCAS test. Test taking strategies, vocabulary and sample questions will be included.

Students who are familiar with the format, strategies and vocabulary of the test are more successful. MCAS preparation is ongoing throughout the school year. We hope that this will provide an opportunity for you to become more familiar with the MCAS and its expectations. The more prepared a child is, the less stress and anxiety is associated with the test.

Vocabulary

One of the words most seen on MCAS tests in math is :

Compute: to find a numerical result, usually by adding, subtracting, multiplying or dividing.

Examples:

Compute:

$$134 - 78 =$$

(taken from grade 3 MCAS 2012)

Compute:

$$65$$

$$\begin{array}{r} \text{X } 98 \\ \hline \end{array}$$

(taken from grade 4 MCAS 2012)

To compute each one of these, you need to multiply, divide or subtract. Not knowing that compute means to just "do the problem" can cause difficulty where it doesn't need to be.

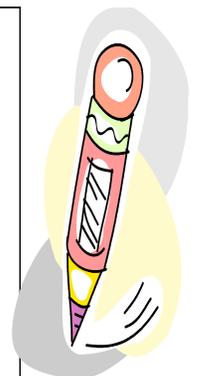


Test Taking

There are many test taking and problem solving strategies that are helpful when answering questions. Some are used when answering multiple choice questions, others are best for open response questions.

Some strategies for Problem solving and short answers response questions are:

- Show your work
- Compute the problem carefully
- Check your work
- Make a chart, table or diagram when necessary
- Complete and label all parts of the question.
- Check off each part of the question once it is completed
- Label all responses
- Pay attention to the wording of questions
Examples:
"about how many"
"Estimate"
"Calculate/compute"
- Watch the operation signs



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Email me with any questions you would like to have answered in the next issue. I will do my best to answer you.

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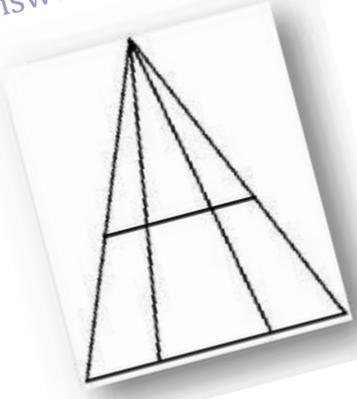
Sudoku is a great number puzzle in which you have to get the numbers 1–9 in each column, row and square. You can not have the same number in twice. Try this one! Good luck!

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

Solution for Sudoku

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

HOW MANY TRIANGLES ARE THERE?
 Answer in next issue...



Answers for problems in Vocabulary
 Compute:
 $134 - 78 = 56$
 Compute:
 65
 $\begin{array}{r} \times 98 \\ 6370 \end{array}$

Answer for Math Riddle
 Gee, I'm a tree (Geometry)