University School of the Lowcountry Summer Math Review

Algebra Readiness is going to be AMAZING! Let's make sure you're set-up for success from the very start. Practice all of your math facts over the summer! Mastery of facts allows us to dive into higher level concepts I am going to introduce in Algebra Readiness.

All students entering Algebra Readiness in August are expected to know:

- Addition and subtraction "fact families" through 20.
- Multiplication and division "fact families" through 12.
- Standard Algorithm is the preferred method for multi-digit multiplication and division.
- Calculating: Area, Perimeter, and Volume.
- Finding: Greatest Common Factor (GCF) and the Least Common Multiple (LCM).
- <u>Decimal Operation Rules</u>
- Divisibility Rules
- Converting Decimals to Fractions
- Converting Fractions to Decimals

Resources:

Flash Cards are great for road trips!

Printables: Math Worksheets

Khan Academy Math Mammoth

<u>Quizlet</u> XtraMath

Prodigy Academic Skill Builders

Math Playground

Apps: 7 Minute Math Genius Mental Math Cards Games & Tips

Complete the following packet and turn in on the first day of Math Class.

What is the product of 4/5 v 6/72	What is the quotient of $4/7 \div 9/99$
What is the product of 4/5 x 6/7?	What is the quotient of 4/7 ÷ 2/3?
What is 243 multiplied by 10?	What is 85 multiplied by 0.01?
What is 18.6 ÷ 3?	What is 12.08 ÷ 4?
What is the result when 0.5 is multiplied by 1.1?	What is the product of 38.27x1.5?
	~`0`
Find the quotient.	What is 76.8 divided by 3.2?
<u> </u>	
0.5) 3.75	
Indiana and the final a finantian that is a suring land to 4/0	Which was delichered 4/0 of 0 about 4/0
Julia needs to find a fraction that is equivalent to 1/2. Which method could she use to find an equivalent	Which model shows 1/3 of 6 shaded?
fraction?	A.
A. She can multiply 1/2 x 1/2 to get 1/4, because 1/2	
$= \frac{1}{4}$.	В.
B. She can divide 1/2 ÷ 1/2 to get 1, because 1/2 = 1.	
C. She can multiply 1/2 x 2/2 to get 2/4, because 2/2	
= 1 and multiplying a fraction by 1 does not	<u>C</u> .
change its value. D. She can divide 1/2 ÷ 1 to get 1/2, because	
dividing a fraction by 1 does not change its value.	
	D.
+ 6	
Which expression is equal to 7/22	What is the quotient of 5/42
Which expression is equal to 7/2? A. 7 + 2 C. 7 x 2	What is the quotient of 5/4?
B. 7-2 D. 7 ÷ 2	
What is 1/2 of 1/5?	How many 1/8 pieces are there in 3/4?
A. 1/10 C. 2/10	A. 2 C. 4
B. 1/7 D. 2/7	A. 2 C. 4 B. 3 D. 6

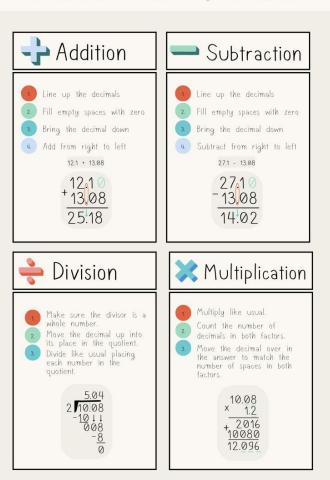
the formula \/-l x\\/yU to find the values of the
e the formula V=LxWxH to find the volume of the
tangular prism.
6 cm
at is the product of 63 x 1,000?
, , , , , , , , , , , , , , , , , , ,
ich expression shows how to find the quotient of
÷ 2?
. (4÷2)+(0.8÷2)
. (4÷2)+(0.08÷2)
. (0.4÷2)+(8÷2)
. (0.04÷2)+(0.8÷2)
at is the product of 1.508 x 0.7?
10,556 C. 1.5056
10.556 D. 1.0556
eese costs \$4.20 per pound. If Ms. Rivera spent
30 on cheese, how many pounds did she buy?
,
pplify the fraction 15/50.
ipiny the naction 19/90.
1: 11 (04/00
at is the quotient of 81/9?
i .

Use divisibility rules to determine if each number is divisible by 2, 3, 4, 5, 6, 9, or 10. If the number is not divisible by any of these, write "none".	Clay puts an average of 1,128 miles on his car each
1 . 235 2 . 671 3 . 1,520	month. At this rate, how many miles will Clay put on his car in 5 years?
4 . 495 5 . 708 6 . 1,316	
Use the formula V=LxWxH or V= B x H, to find the volume of the rectangular prism.	Find the volume.
2 cm 2 cm	4cm 3cm
Find the LCM of each set of numbers.	Write a number on the line that makes the statement true.
1. 27 and 45	1000,000
	10 = 1,000,000,000
2. 8 and 52	

Divisibility Rules

- 2 The last digit will be 0, 2, 4, 6, 8
- 3 The sum of the digits is a multiple of 3 (3654...3 + 6 + 5 + 4 = 18 (18 \div 3 = 6))
- 4 The last two digits are a multiple of 4 (12364....64 \div 4=16)
- 5 The last digit will be 0 or 5
- 6 The number is divisible by BOTH 2 & 3
- 8 The last three digits are divisible by 8
- 10 -The last digit will be 0
- 12 The number is divisible by BOTH 3 & 4
- 15 The number is divisible by BOTH 3 & 5





Formulas:

Perimeter = 2(l+w)

Area = $I \times w$

Volume = l x w x h