

Math Summer Packet for incoming 6th graders

Melrose Veterans Memorial Middle School

It is important for all students to review math concepts and processes during the summer. Intentional practice of math skills will help students reach mastery of content and increase their ability to use facts and operations easily and accurately. Students can use this opportunity to strengthen or deepen their content knowledge and ensure that they have the pre-requisite skills to be successful in their future math classes. Time spent working on mastery, reinforcement, and enrichment will greatly benefit all students.

Students should show all their work in a math journal which will be turned into their teacher at the start of the school year. Students will also print out a report from IXL to show their completion of the IXL assignments that are scheduled every Wednesday. Don't forget that IXL provides explanation for all problems. If you need support, read through the explanation. You can also log in to khanacademy.com for lesson help.

Students will turn in the IXL report and journal by September 8th, 2015.

Directions to print out IXL report:

- Log in to IXL at <https://www.ixl.com/signin/melroseps> (username is first initial last name)
- Click on Usage
- Click on Skills Practices
- Set Date range- Begin: 6/22/15 End: 9/8/15
- Set to Grade 6
- Click Update Report
- Click on the printer icon in the top right hand corner
- Open PDF document
- Print!
- Turn in copy to your new 6th grade teacher!!

JULY SUMMER MATH CALENDAR-ENTERING SIXTH GRADE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	WEEKEND
JULY WEEK #1	I am an even, 3 digit palindrome. (ex: 464). The product of the digits is 8. What number am I?	Define prime number. List 6 prime numbers less than 20.	Math IXL Day 6 th grade Math W.1 Divide whole numbers by unit fractions using models Spend 30 minutes or reach a SMART score of 80	Six friends have 4 sandwiches to share. What fraction of a sandwich would each person get?	Express the number 50 in at least 20 different ways. You may use all 4 operations and include fractions and decimals.	Predict the number of times a 6 will occur when you roll a die 50 times. Roll the die and record the results. Are they the same as your prediction? Why?
JULY WEEK #2	Define factor. List all the factors of 24.	Name all the factor pairs for 18. What factors do 24 and 18 have in common?	Math IXL Day 6 th grade Math W.4 Divide fractions by whole numbers in recipes Spend 30 minutes or reach a SMART score of 80	Find the sum. $32.5 + 82.4 =$ $143.5 + 0.54 =$	You have \$10. You buy a book for \$4.99 and markers for \$2.99. How much change should you get?	A brownie recipe calls for $\frac{2}{3}$ cup of oil. If you tripled the recipe, how much oil would you need?
JULY WEEK #3	Find the perimeter and area of a square that has a length of 15 feet.	Find the quotient: $93.1 \div 1.5 =$ (round to the nearest tenth)	Math IXL Day 6 th grade Math B.4 Convert decimals to mixed numbers Spend 30 minutes or reach a SMART score of 80	What is a composite number? List 3 examples.	Find the product of 165×31 Show how you did it!	Write and solve a summer story problem for this number sentence. $234 \times 6 = \underline{\quad}$
JULY WEEK #4	A square has a side of 3 cm. What is the perimeter of the square? Explain how you got it.	Which decimal is greater 0.9 or 0.77? Explain your answer.	Math IXL Day 6 th grade Math B.9 Decimal number lines Spend 30 minutes or reach a SMART score of 80	Write the improper fraction for $2\frac{3}{4}$. Explain the steps you used to get it.	In a car lot there are 38 rows with 25 parking spots in each row. How many parking spots are there in all?	In June, Christy earned about \$18 for mowing lawns and \$29 for babysitting. Estimate how much she earned altogether. Explain your reasoning.

AUGUST SUMMER MATH CALENDAR-ENTERING SIXTH GRADE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	WEEKEND
AUGUST WEEK #1	<p>The volume of a rectangular prism is 120. What might the dimensions be? Is there more than one possibility?</p>	<p>Write 12,052 in words.</p> <p>What's the value of the 6 in 64,891?</p>	<p>Math IXL Day 6th grade Math T.4 Understanding fractions: word problems Spend 30 minutes or reach a SMART score of 80</p>	<p>Find the quotient: $3,645 \div 45$</p>	<p>What is a fraction between $\frac{1}{4}$ and $\frac{1}{2}$?</p> <p>Prove your answer on a number line.</p>	<p>I am a number less than 50. When divided by 5, my remainder is 4. Who am I? Is there more than one answer?</p>
AUGUST WEEK #2	<p>A field is 32 ft. wide and 51 ft. long. What is the area?</p> <p>What is the perimeter?</p>	<p>Solve: $(19 - 7) \times (2 + 11)$</p>	<p>Math IXL Day B.5 Put decimal numbers in order 6th grade Math Spend 30 minutes or reach a SMART score of 80</p>	<p>Order these fractions from least to greatest.</p> $\frac{7}{8.3}, \frac{4.4}{6.3}, \frac{5.1}{2}$	<p>Is a circle a polygon? Why or why not?</p>	<p>If you spend \$100 a day, how many days will it take to spend a million dollars? How many years is that? What would you buy?</p>
AUGUST WEEK #3	<p>Write 347.392 in expanded form.</p>	<p>Make the largest and smallest numbers you can using the digits 4, 1, 7, 8, and 2. Find their sum and difference.</p>	<p>Math IXL Day 6th grade Math U.2 Add and subtract fractions with like denominators: word problems Spend 30 minutes or reach a SMART score of 80</p>	<p>What is the probability of rolling a sum of 12 on two dice (express as a fraction)?</p>	<p>I am a number less than 50. When divided by 5, my remainder is 4. Who am I? Is there more than one answer?</p>	<p>Write a word problem to go with this equation: $\frac{1}{2} \div 4 = ?$</p> <p>After you have written your problem, use fraction models to solve it.</p>
AUGUST WEEK #4	<p>Jen is 12. Amy is 13. In 25 years, what will be the product of their ages?</p>	<p>Find the sum of the digits of your phone number. What numbers is it divisible by? Prove it using the divisibility rules.</p>	<p>Math IXL Day 6th grade Math U.4 Add and subtract fractions with unlike denominators: word problems Spend 30 minutes or reach a SMART score of 80</p>	<p>Write a word problem for the equation: $\frac{1}{2} + \frac{2}{3} = x$</p> <p>Solve it!</p>	<p>Would you rather have $\frac{5}{8}$, or $\frac{3}{4}$ of a chocolate bar? Why? Draw a picture to help explain your answer.</p>	<p>Find a fraction, percent, or decimal in the newspaper. What does it relate to?</p> <p>Reference the newspaper, date, and article.</p>

SUMMER MATH BOOKS -optional

Strand/Topic	Title	Author
Addition, Subtraction, Multiplication, and Division	Anno's Mysterious Multiplying Jar The King's Chessboard Spaghetti and Meatballs for All Less Than Nothing is Really Something A Remainder of One One Hundred Hungry Ants	Anno, Mitsumasa and Masaichiro Anno Birch, David Burns, Marilyn Froman, Robert Pinczes, Elinor J. Pinczes, Elinor J.
Data, Chance, and Probability	Jim and the Beanstalk Do You Wanna Bet? Esio Trot	Briggs, Raymond Cushman, Jean Dahl, Roald
Fractions, Decimals, and Percents, Rates and Proportions	Fourscore and 7: Investigation Math in American History Only One Fraction Action Gator Pie Eating Fractions If You Hopped Like a Frog	Franco, Betsy Harshman, Marc Leedy, Loreen Matthews, Louise McMillan, Bruce Schwartz, David M.
Geometry	Mr. Archimedes Bath Who Sank the Boat? A Cloak for the Dreamer The Librarian Who Measured the Earth Sir Cumference and the Sword in the Cone Sir Cumference and the First Round Table Pi: A Math Adventure The Boy Who Reversed Himself Grandfather Tang's Story Jumanji	Allen, Pamela Allen, Pamela Friedman, Aileen Lasky, Kathryn Neuschwander, Cindy Neuschwander, Cindy Neuschwander, Cindy Sleator, William Tompert, Ann Van Allsburg, Chris
Number and Order	Counting On Frank Speed Mathematics 12 Ways To Get To 11 Math Talk: Mathematical Ideas in Poems for Two Voices How Much is a Million?	Clement, rod Handley, Bill Merriam, Eve Pappas, Theoni Schwartz, David M.