

During your summer break, the math teachers at King Middle School would like you to apply what you have learned this year toward your everyday summer life. On the back side of this paper, you will find 25 different activities that will guide you to practice some of the concepts you learned this year. You are to complete 15 of the activities and have your parent initial each square that you have completed. You will notice that some of the squares allow you to practice your math facts. www.xtramath.org is a free website where you can create a log-in and practice addition, subtraction, multiplication and division facts. When you master a set of facts, print out a certificate of completion and attach it to this sheet.

In order to receive full credit for this assignment, please attach all work to this form.

Due Date: September 2, 2016

Deadline: September 9, 2016

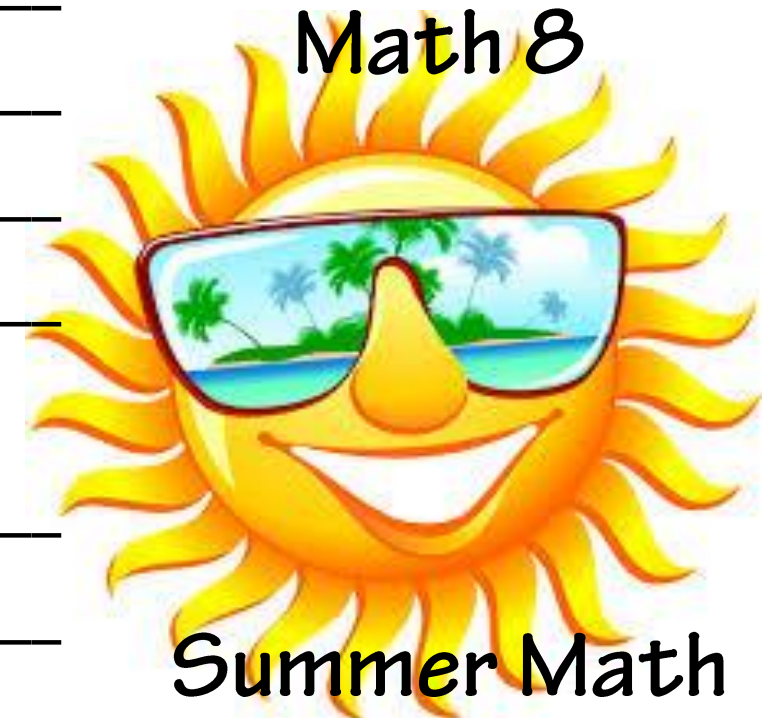
Once you have finished completing 15 of the 25 squares, please answer the questions below using complete sentences.

1) Which square was the easiest to complete? Why do you think it was easy for you?

2) Which square was the most difficult to complete? Why do you think it was so challenging for you?

3) Pick a square you did not complete. Why did you choose not to complete it?

**Students Entering
Math 8**



**Summer Math
Homework**

<p>Calculate the cost of gas for a long a car trip. (i.e. Going to the beach or NYC)</p>	<p>Look for at least 5 different places where you see/use <u>negative</u> numbers. List them.</p>	<p>Research the Fibonacci Sequence. Use what you learn to teach a friend about this sequence. Wow your friend by showing him/her an example of how it is found in nature!</p>	<p>Take photos of 3 different pairs of similar polygons you encounter over vacation. Tell your parents what makes them similar.</p>	<p>Practice your Integer skills using the "Integer Practice" tab from the website. http://classroom.jc-schools.net/basic/math-integ.html</p>
<p>When you go to the mall this summer and buy an item, calculate the amount of tax you would pay for the item (in the state of Maryland it's 6%).</p>	<p>Pick one game from the website below to practice your integer skills. http://classroom.jc-schools.net/basic/math-integ.html</p>	<p>Calculate the area of your bedroom in inches².</p>	<p>Create a circle graph that describe how you spent your time this summer. (i.e. swimming, media, playing outside, working on math....) Don't forget TAILS!</p>	<p>When you buy something this summer, calculate the cost of the item IF you were to receive a 30% discount.</p>
<p>When you go to a restaurant with your parents this summer, ask them to let you figure out the tip. Depending on the level of service (bad, average, good), tip 15%, 20% or 25%.</p>	<p>Look for a misleading data display. Talk to your parents about why it is misleading and what the publisher should have done differently to make it not misleading.</p>	<p>Calculate the surface area of your bedroom walls and ceiling in feet².</p>	<p>Shoot 50 free throws. Calculate the percent of free throws made. Challenge a friend or family member to beat your percentage!</p>	<p>While swimming at the pool, have a friend or family member measure the amount of time it takes to swim one lap. Do at least 10 laps. Calculate the measures of central tendency (mean, median, & mode) of this data! Calculate the range as well.</p>
<p>Research a famous mathematician. Learn about the contribution he/she made to the world of Math.</p>	<p>Help a sibling or friend figure out a tough math problem.</p>	<p>Pretend that you are buying new furniture for your bedroom, and you need to know how much room there is. Using a yard stick/ruler/meter stick, calculate the length, width and height of your bedroom. Then find the volume of your bedroom, using the formula $V = LWH$.</p>	<p>INTEGER CHALLENGE- Speed Match Challenge See if you can beat your teacher's score of 47.9 seconds. http://www.superteachertools.com/speedmatch/online/game1328026063/</p>	<p>Go with your parent/guardian to the grocery store and identify how much one pound of apples would cost. Using a proportion, figure out the cost of 5 pounds of apples.</p>
<p>Have fun practicing your basic math skills on the web. Write down the highest level you got on the game below. http://www.sheppardsoftware.com/mathgames/mathman/mathman.htm</p>	<p>Look out for a survey. When you find a survey determine if it is biased or unbiased. Tell your parents the difference between unbiased and bias.</p>	<p>Identify two streets in your neighborhood that are parallel and cut by a transversal. Write the names of the parallel streets and the transversal street.</p>	<p>Design a Math Wordle Poster for your teacher to hang up in the classroom when you come back to school. Use vocabulary that was learned in Math 7.</p>	<p>During a long car trip, calculate the time in minutes it took you to travel to your destination. Have your parents tally how many times you said "Are we there yet?" 😊</p>