Summer Math Fun: Going into Grade 8

Dear Student and Family,

You have learned so much in math this year! It is important to keep practicing your mathematical knowledge during the summer to be ready to enter your next grade. In this packet you will find short and fun math activities that will help you review and maintain math skills learned throughout this past year.

This summer math review is a calendar for the months of July and August. All you have to do is follow the daily calendar and complete at least three of the activities per week, every week. Keep a notebook or write answers on the back of this sheet and have your parents initial each day you complete. **Hand your work into your teacher during the first week of school.**

The list of websites below are places you can go to further practice and improve your math skills and get ready for the challenge of next school year!

- http://coolmath4kids.com
  This site is like an amusement park for math. There are lots of things for children to explore and problems to solve.
- http://www.webmath.com/
  Webmath is a math-help web site that generates answers to specific math questions and problems, as entered by a user, at any particular moment. This site has family activities, math help and much more.
- https://www.sumdog.com or use the free Sumdog app for tablet/phone
  Students love these math practice games! Sumdog has them practice a variety of math skills through various engaging games. Children can play against each other or against other kids from around the world. Free parent accounts to track your child's progress.
- http://learnzillion.com/
  LearnZillion is a learning platform that combines video lessons, assessments, and progress reporting. Each lesson highlights a Common Core standard, starting with math in grades 3-9.
- http://www.ixl.com/math/grades
  Ixl is a great site for fun interactive games and math practice focused by grade or standard.

Enjoy your summer and keep your skills sharp!

July 2018 Answer/Website		Parent Initials		August 2018 Answer/Website		Parent Initials

July 2018   Summer Math Fun: Going into Grade 8

Monday	Tuesday	Wednesday	Thursday	Friday
2 Which is a better buy? a. 15 oz. for $1.79 b. 12 oz. for $1.49	**3** **Write four fractions that are equivalent to $\frac{3}{5}$. Are these fractions proportional? How do you know?**	**4 Log onto:** http://www.amathsdictionaryforkids.com/ **Find the meaning of complementary. Use this site for help when needed!**	**5 Add: 2 + (-3)=** (-2) + (-3)= (-2) + 3 =	**6** **Use your equation from yesterday to calculate the cost of ice cream for 1 to 4 people. Display your answers in a t-chart.**
9 **Find the definition for complementary and supplementary angles.** **Find the complement and supplement of a 55^0 angle**	**10** **2.36×10^7 is in scientific notation. What is the standard number?**	**11** **Log onto** http://www.khanacademy.org/ **Spend at least ten minutes exploring linear equations.**	**12** **Choose a professional athlete and research their annual salary. How much does he/she earn per month?**	**13** **Twice a number (n) minus nine is ninety-five. Find the number.**
16 Calculate: 7 × 8= (-7) × 8 = (-7) × (-8)=	**17 Find a can of drink mix (such as iced tea). Write a ratio of scoops per serving from the directions on the can. Use the ratio to find the number of scoops needed for 30 servings.**	**18** **Log onto this website:** http://resources.oswego.org/games/mathmagician/cathymath.html **Complete a multiplication fact challenge!**	**19** **Carlos charges $7 to per hour to mow a lawn plus an additional $5 to cover the cost of gasoline. How much will Carlos charge if he works for 4.5 hours?**	**20** **Play Sudoku from the newspaper.** **How did logic help you solve the puzzle?**
23 **Compare two different size cans in your house. What are their heights and diameters? Which one has the greater volume? Why?**	**24 Measure the length of your shadow. Write a ratio to compare the shadow length to your actual height. Now measure the shadow of a tall object. Use a proportion to find its real height. Check your answer and explain how you did.**	**25** **Log onto** www.ixl.com/ **Spend ten minutes practicing operations with integers (under 8th grade or pre-algebra).**	**26** **Find the circumference of your cereal bowl. Find another circle that looks twice as big. What is that object and its circumference – is it twice as big?**	**27** **Find a staircase in your home. Measure the height and depth of one step. Write a proportional relationship of the height to the depth.**
30 **Find the mean, median and mode of the daily temperatures if the temps are:** **82°, 78°, 91°, 89°, 78°**	**31** **A local grocery store offers a ten percent discount savings to senior citizens on Tuesdays. How much will the groceries cost a senior citizen if the original cost is $85.79?**			

August 2018 Summer Math Fun: Going into Grade 8

Monday	*Tuesday*	Wednesday	Thursday	Friday
.		**1** Log onto this website: www.sumdog.com Try a math contest of your choice. Write a brief paragraph to tell someone what you did on the website.	**2** How many times greater is 10^{12} than 10^3? Show your work to support your answer.	**3** Look at the following decimals: 0.12131415…. 0.123123123…. How are they alike? How are they different?
6 What is the standard number for: 8.9×10^{-5}	**7** Simplify the expression: $2a + 6b - 5a - b + 1$	**8** Log onto this website: http://resources.oswego.org/games/mathmagician/cathymath.html Complete a multiplication fact challenge!	**9** The amusement park charges $14 for a one day pass. Games cost $1.75 each to play. Make a table that shows the number of games played and the amount you will spend. Include 0 – 5 games.	**10** A party at a local laser tag company costs $12 per person for playing tag and an additional fee of $30 for a cake and drinks. Write and solve an inequality to model the max number of people you can invite if you can spend at most $200.
13 What is the CT state sales tax rate? Find the CT state tax you will save if you buy $120 clothes and supplies during tax-free week. Go here for info.	**14** The area under a square canopy is 144ft². What is the side length of the canopy?	**15** Choose a website from the letter or calendar that you have visited. Spend ten minutes exploring a math game of your choice.	**16** Subtract $$\frac{3}{5} - \frac{1}{10}$$	**17** Solve the following inequality. Graph your solution on a number line. $5x - 8 \leq 7$
20 A beach umbrella shades a circular area of 28.3 ft². Find the diameter of the umbrella.	**21** A beach cooler is 2.5 ft long, 1.5 ft. wide and 2 ft. tall. How much ice is needed to fill the cooler at least 1/3 full? What assumptions did you make?	**22** Log onto: http://www.amathsdictionaryforkids.com/ Find the meaning of outlier. Is there an outlier in your weather data from July? August?	**23** Solve the following equations. -5x +3 = 13 3x − 9 = -15	**24** Find the mean, median and mode of the daily temperature for the last week of July.