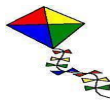



JULY 2024 ENTERING GRADE 6

MON	TUES	WEDS	THURS	FRI
1 Go to this website: https://www.coolmath4kids.com Try at least two different games. Record your scores and explain the math skills you practiced in the games.	2 A farm has cows and ducks. There are 78 feet and 27 heads. How many of each animal are there? How do you know? Record your answer. Is there more than one combination of cows and ducks that works?	3 Choose a professional athlete and research his/her annual salary in any recent year. How much does s/he earn in a month? A day? Record his/her total salary as well as their daily and monthly salaries.	4 Watch this video for ideas on creating a sidewalk design: https://www.youcubed.org/resources/sidewalk-chalk-designs-k-12-video/ Record your work in a drawing or photograph.	5 Make a dollar with 50 coins. What coins did you use? How many of each? Now try \$3 and then \$5. Record your combinations.
8 A California Condor has a 114-inch wingspan. How many feet is that? Record your answer and show your work.	9 I am an even, 3-digit palindrome (ex: 464, the same number forwards and backward) The product of my digits is 8. What number am I?	10 $7.3 \times 102 = \underline{\hspace{2cm}}$ $\underline{\hspace{2cm}} \div 102 = 0.907$ $42 \div 102 = \underline{\hspace{2cm}}$ Write the problems and answers in your notebook. Show your work.	11 Find and list the volumes of 5 boxes of food in your kitchen in cubic inches and then in cubic centimeters. What do you notice? Record all data.	12 <u>REAL-LIFE MATH</u> Plan a meal for your family. With an adult, list the ingredients, go shopping, and follow the recipe. Write about how you used math during this experience.
15 Barry bought a roll of ribbon to make bows. There were 132 inches of ribbon on the roll. How many feet of ribbon was that? If each bow needed 22 inches of ribbon, how many bows did he make? Record your answer. Show your work.	16 Find an example of street art in your community. What math do you see in the work? Some things to look for are shapes, lines, patterns, angles, lines of symmetry, numbers, and more. Take a photo or try to draw the art. Explain the math in it.	17 What time is eight and one-half hours after 6:00 A.M.? Record the time in your notebook. Write what you normally do at that time of day in the summer.	18 Try a Kenken puzzle at http://www.kenkenpuzzle.com See how far you can get. Record your highest successful level.	19 There are two 3s in the number 2,033,541. Jessica says that the 3 on the left is 10 times the value of the 3 on the right. Maggie says that the 3 on the right is 1/10 the value of the 3 on the left. Who is right? Explain your thinking.
22 Write a story problem to match this equation and show the solution: $3 \times (130 + 50)$	23 The largest prime number less than 30 is _____. Record your answer. List all the prime numbers that are less than 100.	24 Add $34.95 + 23.90$. Which digits are in the hundredths and tenths places? Which digits are in the ones, tens, and places? What could the sum of the two numbers represent in real life? Record your answers.	25 Use your school account or create your own to play any game at https://prodigygame.com Record a strategy that you used.	26 Eight friends have 6 sandwiches to share. What fraction of the sandwiches will each person get? Record the fraction. Show your work or explain how you got your answer.
29 What is the perimeter of one of the rooms in your house, measured in feet and inches? In meters and centimeters? Record your measurements.	30 <u>REAL-LIFE ACTIVITY</u> List the full amount necessary for each ingredient in a recipe. You only want to make half of what the recipe calls for. Record the adjusted amounts needed for each ingredient once the recipe is cut in half.	31 Choose a rectangle or a square box. Measure the length, width, and height in centimeters and then inches. Record your dimensions. Find the volume in cubic centimeters and then cubic inches. Record.	Outdoor Activity	Outdoor Activity

AUGUST 2024



ENTERING GRADE 6

MON	TUES	WEDS	THURS	FRI												
Outdoor Activity	Outdoor Activity	Outdoor Activity	1 Play Sudoku from the Newspaper online or in a book. How did logic help you to solve the puzzle? Glue or copy the puzzle on paper or online documents.	2 I am a number less than 50. When divided by 5, my remainder is 4. Who am I? Is there more than 1 correct answer? Explain.												
5 There are 55 days of summer vacation this year (not including weekend days.) Write a fraction for the vacation days we have had so far. Including today. What fraction of the days do we have left?	6 The thickness of a piece of paper is .004 of an inch. A Red Sox player's batting average is .337, representing the number of hits divided by at-bats. Find and explain other real-world uses of decimal numbers.	7 Run around your house three times. Use a timer to record the time to the nearest hundredth of a second. Do the same thing again. Record both times. Which one was the fastest time? Explain how you know.	8 Play a game like Chess Or Monopoly. Write about how you used math to play.	9 If you spend \$100 a day, how many days will it take to spend a million dollars? How many years and days is that? Record your answers.												
12 Borrow any <u>Guinness Book of Records</u> by Time Inc. at the library or look online for world records. Explain what record involving numbers surprised you the most. Why? How was it measured?	13 232 children and 45 adults are going on a field trip. Each bus can seat 50 people. How many buses will they need? How many empty seats will there be? Record your answers and show your work.	14 Look around your neighborhood for intersecting streets. Decide if they meet and create a 90° angle, an angle > 90°, or < 90°. Record the names of the intersecting streets and the type of angles they form.	15 Bill and Carol buy a pizza cut into 8 equal slices. How many pieces are left if Bill eats $\frac{1}{8}$ of the pizza and Carol eats $\frac{1}{4}$ of the pizza? Record your results.	16 Use addition. The sum of each row, column, and diagonal must be equal. Record the completed square. <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td colspan="3" style="text-align: center;">Magic Number: $7\frac{1}{2}$</td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">$2\frac{1}{2}$</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Magic Number: $7\frac{1}{2}$			1		2		$2\frac{1}{2}$				
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1		2														
	$2\frac{1}{2}$															
19 Use coordinate grids to play games at: https://www.mathplayground.com/locate aliens.html Write about your experience.	20 Create a geometry dictionary with entries on the obtuse, acute right, straight angles, and isosceles, equilateral, obtuse, acute, and right triangles. Use real-world examples of these shapes.	21 Make or find a worksheet with 5 multi-digit multiplication and division problems. Time yourself to see how long it takes you to finish it on 2-3 different days. Submit the worksheet and times.	22 Solve this problem. Record your answer and show your work: Liam added $\frac{3}{6}$ and $\frac{1}{2}$ and wrote an answer of $\frac{1}{12}$. Is his solution correct? Write yes/no and explain why.	23 Write and illustrate a paragraph about how the President of the United States uses math at his job.												
26 Play the board or virtual game Battleship. http://www.battleshiponline.org/ Write about your experience	27 Count cricket chirps at night for 15 seconds. Add 37. This is the Fahrenheit Temperature outside. Try it on 3 different nights. Does it work? Explain your answer in your notebook.	28 Write the number 50 in at least 25 different equations. Use all 4 operations and include fractions in at least one of the equations and decimals in at least one other.	29 Get your work organized! If you did your summer math electronically, email it to fkhan@medford.k12.ma.us , If it is paper, bring it to school on the first day you return and hand it to your teacher.	Outdoor Activity												