J.J. SANCHEZ

Summer Review for students who have COMPLETED Math 7 or Math 7 for 6th Graders Show your work. Use extra paper if needed and attach it to the packet.

Week	#1	Name:
1.	Simplify: $\frac{7-15}{-2}$	 The town of Pratt has a population of about 8,260,000. Express this number in scientific notation.
3.	What is the value of the expression below when $a = -3$ and $b = 2$? $a^2 + ab $	 4. Solve and graph the solution to the inequality on the number line. 4 ≥ x + 8
5.	Mr. Nguyen saves \$120 of his income of \$800.00. What percent of his income does Mr. Nguyen save?	 6. On this spinner, what is the theoretical probability of spinning a color that is <u>not</u> yellow? blue red yellow green
7.	James owes \$185 on his credit card. He makes a \$65 payment and then purchases \$87 worth of clothes at a local department store. What is the integer that represents the balance owed on the credit card?	 8. Marcela's grocery bills for three months were \$75, \$87, and \$25. To add the bills mentally, Marcela thought: "75 + 87 + 25 = 75 + 25 + 87" What property did Marcela use?
9.	If the triangle shown is translated vertically 3 units and horizontally -4 units, graph the image of the triangle.	 10. The rectangles below are similar. Write a proportion to show the relationship between the corresponding sides. 9 20 15 12

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Week	Week #2 Name:				
1.	Simplify: -3(14 - 20) + 2	2. Kia's height is one-fourth of Sammy's height. If Kia is $1\frac{1}{2}$ feet tall, how tall is Sammy?			
3.	Multiple Responses: Circle the letters of the verbal expression(s) that match this algebraic expression: $6 - 3k$ A.the product of 3 and k is less than 6B.the product of 3 and k less than 6C.the product of 3 and k less 6D.6 is less than the product of 3 and k less 6E.6 less than the product of 3 and k less 6D.6 is less than the product of 3 and kE.6 less than the product of 3 and kDraw an isosceles trapezoid and label all	 4. 1st wall 2nd wall 3rd wall How many bricks are in the 3rd wall? How many bricks would be in the 6th wall? Explain the pattern. 6. Solve: 13 = -3x - 8 			
7.	Two ladders leaning against two walls happen to form two similar right triangles. What is the height of ladder x?	 8. What is the most specific name to classify this plane figure? What are other names that accurately classify this figure? 			
9.	Sharon spends \$80.00 at the computer store. The tax on her purchase is \$4.00. Use a proportion to find the tax rate as a percent.	 10. A card will be randomly selected from the cards shown below, and then replaced. A second card will then be selected. 4 8 12 16 20 24 28 32 36 40 What is the probability that the first card is a multiple of 8 and the second card is a perfect square? 			

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brand name s regular price have to pay?	to the mall and b sunglasses on sale of \$240.00. Ho	e for $\frac{1}{3}$ off the	2.	Flip a coin ten times and notice how often "heads" appeared. Explain your experimental probability compared to the theoretical probability to justify why they are the
A rectangle h				same or different.
length is 10 m find the widt	h.	of 30 m. The owing equation to	4.	The planet Mars is about 142,000,000 miles from the sun. Express the number in scientific notation.
Complete the table.			6.	The box shown below needs to be wrapped for shipping. How many square centimeters of wrapping would be needed to cover the box?
Input X	Function Rule	Output Y		
2	3(2)	6		
6	3(6)		19 cm	
	3(8)	24		
10			•	9 cm
Canyon. They cliff. The dis first second,	dropped a dime o tance the dime f 48ft the next se	off the highest fell is 16ft the econd, 80ft the	8.	Bao mails a math puzzle to three friends. Each of the three friends mails the puzzle to three more friends, and so on. What is the total number of puzzles in the sixth mailing?
		r 0.3?	10.	Solve: -2 + 5x = -14
	Complete the Input X 2 6 10 Marty and his Canyon. They cliff. The dis first second, third second. Which is grea	Input XFunction Rule23(2)63(6)3(8)3(8)1010Marty and his brother went to Canyon. They dropped a dime of cliff. The distance the dime of first second, 48ft the next set third second. What is the component of the second.	Complete the table. Input X Function Rule Output Y 2 3(2) 6 6 3(6)	Complete the table. 6. Input X Function Rule Output Y 2 3(2) 6 6 3(6) 19 cm 3(8) 24 10 . 8. Marty and his brother went to the Grand Canyon. They dropped a dime off the highest cliff. The distance the dime fell is 16ft the first second, 48ft the next second, 80ft the third second. What is the common difference? 8. Which is greater, 3.3×10^{-1} or 0.3 ? 10.

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Summer Review for students who have CC Week #7	MPLETED Math 7 or Math 7 for 6 th Graders Name:
1. Triangles <i>EFG</i> and <i>QRS</i> are similar. The length of the sides of <i>EFG</i> are 144, 128, and 112. The length of the smallest side of <i>QRS</i> is 280, what is the length of the longest side of <i>QRS</i> ?	2. Evaluate this expression for n = 3: $n+10 \div 2 - (n+7)$
3. Start Stop -5 -4 -3 -2 -1 0 1 2 3 Multiple responses: Select all equations that are true and that could be represented by the model above. A $-5 + -3 = -2$ D $-3 + 5 = 2$ B $-2 + -3 = -5$ E $-5 + 3 = -2$ C $-5 - (-3) = -2$	 4. The volume of the rectangular box shown below is 90 cubic centimeters. The length on one side of the top is 9 centimeters and the height of the box is 2 centimeters. What is the area of the top of the box? 9 cm 2 cm
5. Mrs. Smith needed to fill the sandbox at her preschool. The sand came in cylinders like the one pictured below. 3 cm 7.5 cm To the nearest hundredth, determine how much sand each cylinder held.	6. Pentagon CDEAB is similar to pentagon XYZVW, and the scale factor is 3:4. If CD=4.5, find the value XY. $A \longrightarrow_{E} D c \qquad \qquad$
7. The model represents which equation? KEY = +1 = -1 A $5(-4) = -20$ C $-5(4) = 20$ B $5(4) = -20$ D $-5(-4) = 20$	8. Suppose there are 2 choices for ice cream cones: sugar or cake, and there are 3 choices for ice cream: chocolate, vanilla or strawberry. Draw a tree diagram to determine the number of possible combinations.

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Week	Evaluate $10^4 \times 10^{-4}$.	Name: 2. Solve: 2n + 3 = 11
3.	Susan can swim 30 laps in one hour. At this rate, how many laps could she swim in two and a half hours?	 4. Consider the sequence 1, 4, 9, 16, What expression could you use to find the <i>nth</i> term?
VA to from V she dr	Sophia is planning a vacation. She looks at a map with the following scale. $\frac{1}{2}$ inch = 25 miles e map, Sophia finds the distance from Richmond, Washington, D.C is 2 inches and the distance Washington to New York City, NY is 5 inches. If rives from Richmond to Washington and then to York City, about how many miles will she travel?	6. Find the surface area. Use 3.14 for π . Round decimal answers to the nearest tenth. 16 in. $C = \pi d$ $S \text{ in.}$ $A = \pi r^2$
7.	Write an equation for the following: -4 is 6 less than an unknown number. Solve the equation.	8. Complete the missing terms in the proper place in the diagram to show the organization of quadrilaterals by common attributes. The missing terms are: rectangle, trapezoid, kite, rhombus, and parallelogram. Quadrilateral
	A cube shaped pool is half full of water. If iter is 3 feet deep, what is the volume when the is all the way to the top?	Square

Week #9			Name:		
1.	Draw a parallelogram, and label all congruent segments, congruent angles, and parallel sides.	2.	The price of a CD is \$16. If the sales tax is 4%, what will be the total price of the CD?		
3.	A game spinner is equally divided into blue, green, red, and orange. Mike spun the game spinner 8 times. The spinner landed on Red 3 times. How does Mike's results compare to the theoretical probability of landing on Red?	4. A B C D	Margaret works for a soup company as an engineer. She is designing a new size soup car Margaret needs to find the surface area to determine how much soup the new can will hold. the surface area to determine the amount of aluminum needed for the new can. the volume to determine the amount of aluminum needed for the new can. the volume to determine the amount of paper needed to cover the can with a paper soup label.		
5.	Complete the table of values that satisfy $y = 3x - 5$ $ \begin{array}{c c} x & y \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ \end{array} $	6.	If the expression T+10 indicates 10 seconds after "take-off" of a space shuttle, what expression indicates 10 seconds before the take-off?		
7.	A bucket will hold 30 stones. The first person puts in one stone. The second person puts in two stones. The third person puts in three stones, and so on. On which person's turn will the bucket become full?	8.	The Smiths went to a restaurant. The bill was \$27.70. If they gave a 15% tip, how much was the tip?		
9.	Robert baked 36 brownies. He saved 12 brownies for himself, and gave the same number of remaining brownies to each of his 6 children. Write an expression that can be used to find the how many brownies each child received. Then simplify it to find the amount.	10.	If the height of a rectangular prism is cut in half, what would happen to its volume?		

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Week		-	ame:
1.	There are 169 chairs in the gymnasium that need to be arranged in rows and columns. How can they be divided so that there are an equal amount of rows and columns?	2.	A crate has the shape of a cube and measures 8 inches on a side. How much space inside the cube is available for storage, in cubic inches?
3.	Solve: 3 = -7 - x	4.	Solve: 5n - 2 = -9
5.	Rectangle ABCD is similar to rectangle EFGH. Find the value of x. $4 \text{ ft} \qquad \qquad B \qquad F \qquad G \qquad \qquad F \qquad G \qquad \qquad$	6.	Jose's grandmother gives him \$0.10 on Sunday. On Monday, she gives him \$0.20. On Tuesday, she gives him \$0.40. If she continues this pattern, how much money will she give him on Saturday of that week?
7.	Your family spends 30% of its monthly income on food. If your family earns \$2000 a month, how much is spent on food?	8.	Which property is shown below? 2(3 + 4) = 2(3) + 2(4)
9.	There are 24 marbles in a bag. Six marbles are red, eight are green and ten are black. Find the probability of choosing a green marble if one marble is chosen at random. Express the probability: as a ratio as a decimal as a percent as a point on a number line: -1.5 - 1 - 0.5 0 0.5 1 1.5	10.	The preimage of rectangle CATS has vertices $C(-1, 2)$, $A(1, 2)$, $T(1, -2)$ and $S(-1, -2)$.

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