

G1G1G1G1 Summer MathCalendar

Dear Soon to be Algebra I students and parents of soon to be Algebra I students,

This summer math calendar has not been created to torture you. It was actually created with the opposite intent. This was created to make you math aficionados, especially as you prepare to begin Algebra I! To help you do this, I have put together this calendar with math concepts that you have already learned so that your skills are sharp and ready to begin Algebra.

Each week you will be assigned five sets of problems to complete. You may choose when to do it. You may work on the calendar in whichever way best suits your style. You may do the problems for the week in one day or you may spend five minutes a day completing each problem. All I ask is that you do not leave the calendar until the week or even the day before school begins. Trust me, you will not complete it! This calendar is meant for you to maintain your skills. You may use siblings, parents, and most importantly your brain to complete the calendar. You must show all of your work and the work should be done in pencil.

Lastly, please complete the evaluation forms. There is one for you and one for your parents. Good luck! Have a fabulous summer! I cannot wait to see you when class begins!

Sincerely,



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Summer Math Calendar Evaluation for Students



Please rate the following on a scale from 1-10, with 1 being the easiest and 10 being the hardest.

1.) _____ How would you rate the difficulty of the problems in general throughout the summer math calendar?

2.) _____ How would you rate the variety and amount of problems throughout the calendar?

3.) What types of problems in the calendar were the most difficult and why?

4.) What types of problems in the calendar were the easiest and why?

5.) When did you complete the calendar? How did you pace yourself when completing the calendar? (Did you do it every day, once a week, completed it in a few days?)

Thank you for taking the time to complete this evaluation!

Summer Math Calendar Evaluation for Parents



1.) How difficult did you feel this summer math calendar was for your student? Was it too easy or too difficult or somewhere in the middle?

2.) How much help did you give your son or daughter in completing this calendar?

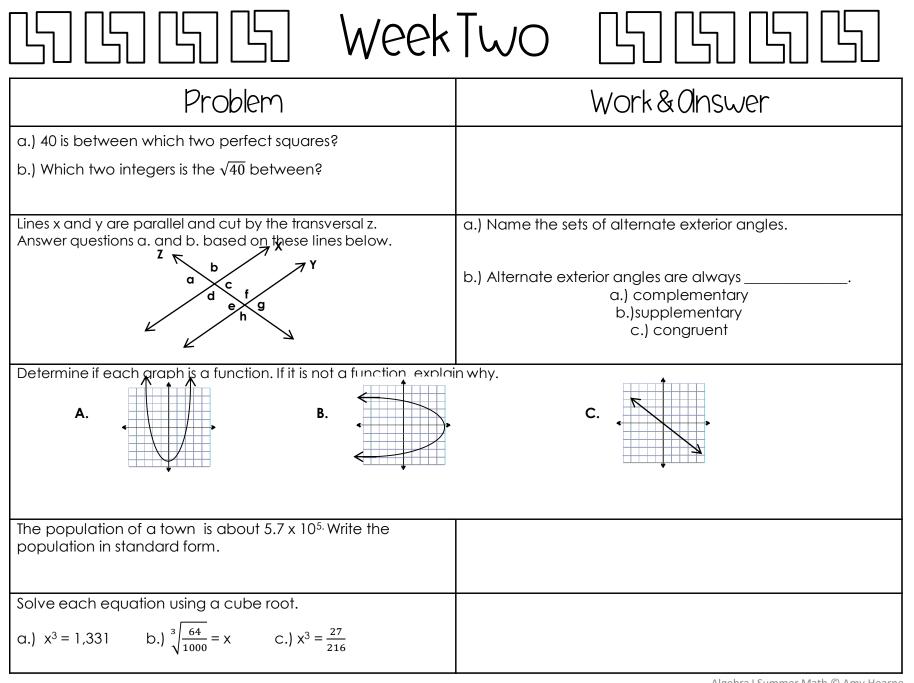
- 3.) What would you say was the best thing about the summer math calendar?
- 4.) What would you say was the most difficult thing about the summer math calendar?

5.) If you could change one thing about the summer math calendar in general, what would you change?

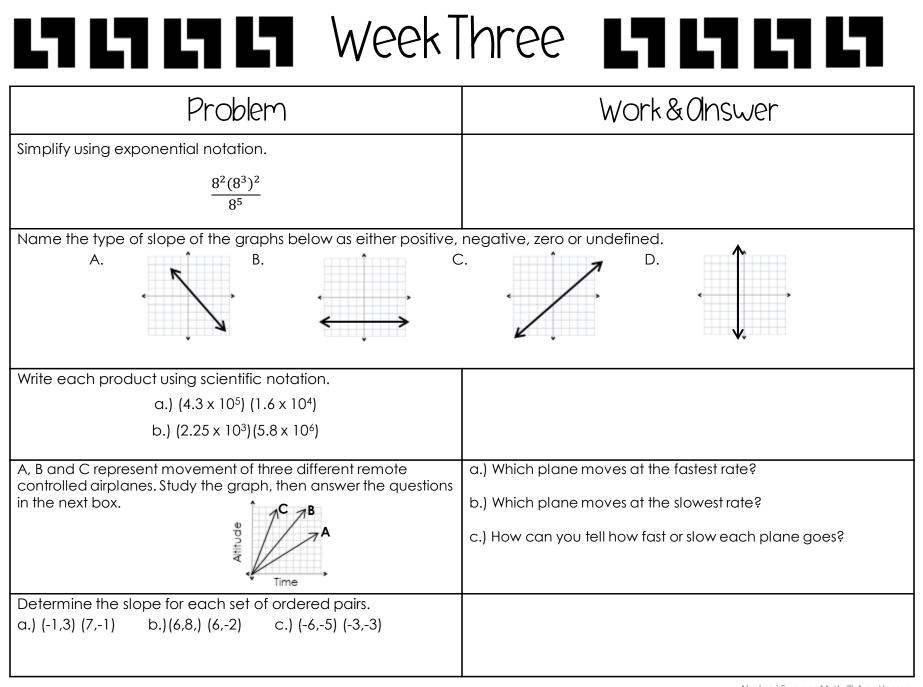
Thank you for taking the time to complete this evaluation!

WeekOne

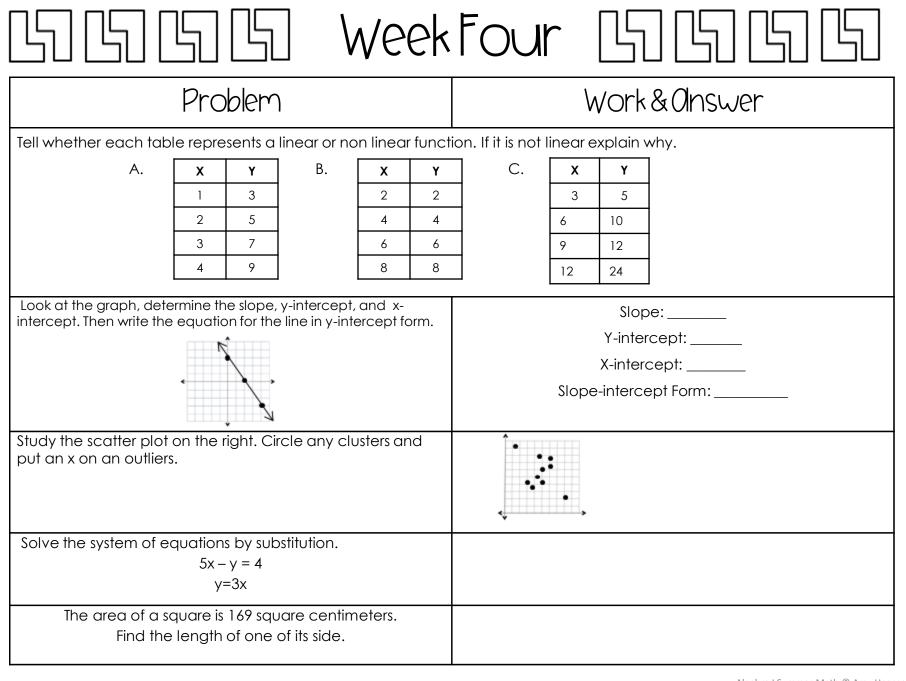
Problem	Work&Onswer		
Circle the rational numbers. How do you know if a number is rational? $\sqrt{17} \frac{1}{2} -1,423 0.375 \frac{3}{0}$			
Simplify. Write your answer in exponential notation. a.) 2 ³ x 2 ⁻⁵ b.) (6a ²) ³			
Was the second shape reflected or rotated? Which side of the second shap			
Find the volume of a sphere if r=6cm. Use 3.14 for the value of pi.			
Solve for x. 2(x - 7)=9x + 10 - x			



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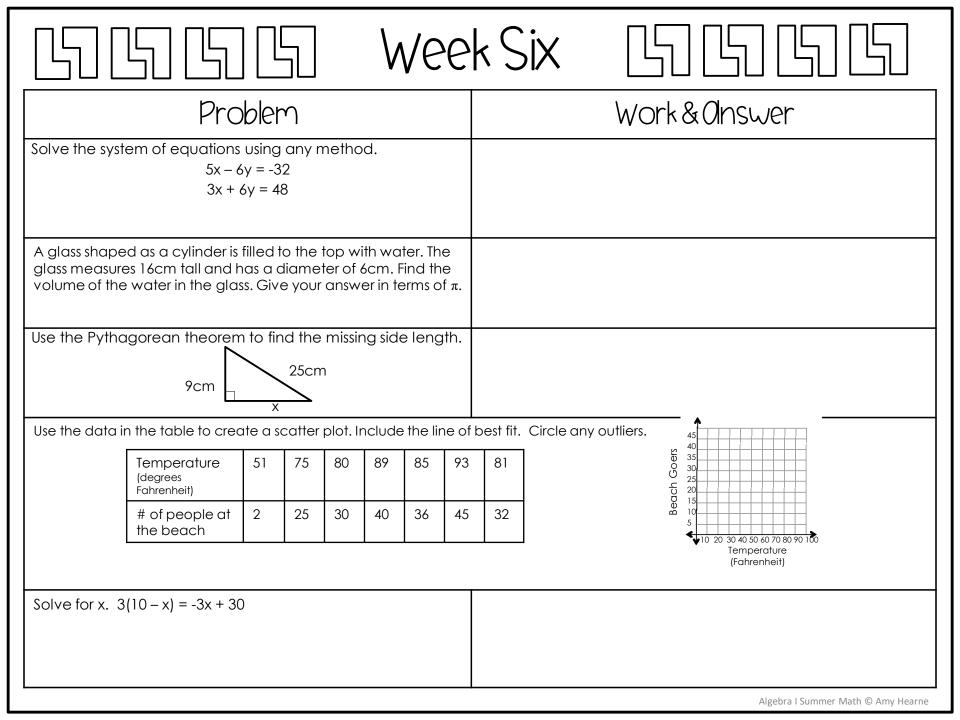
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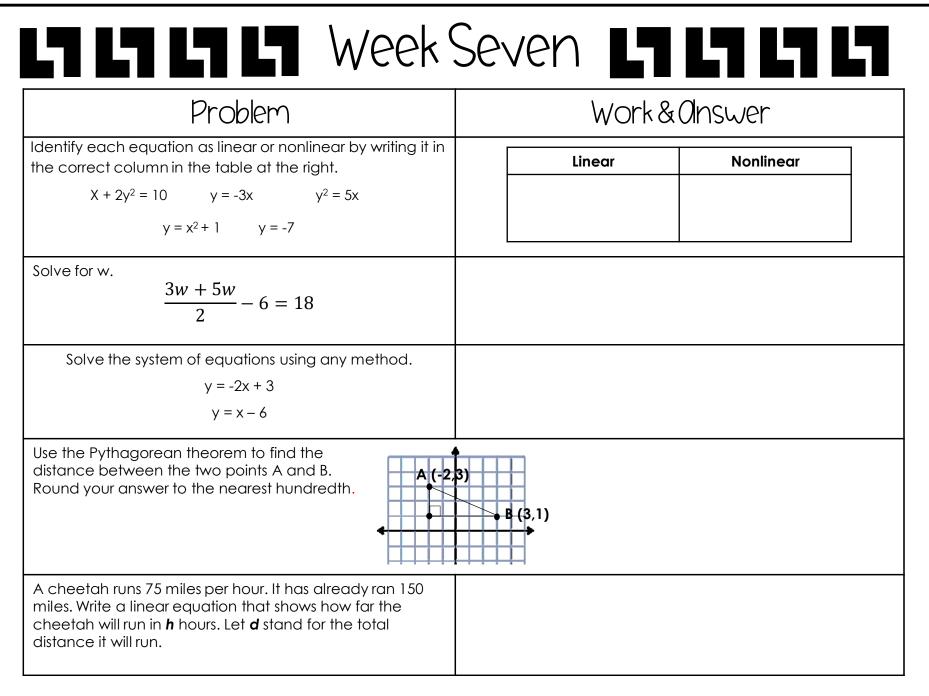


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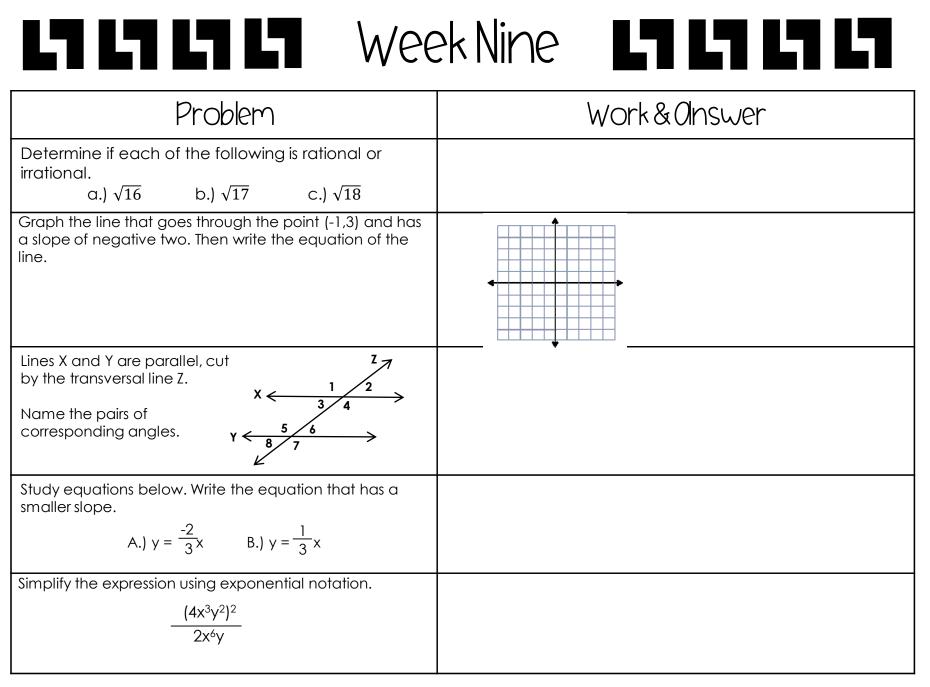
WeekFive

Problem	Work&Onswer		
(6,3) and (12,6) are on the same line. Find the slope, y-intercept. Then write the equation of the line in slope-intercept form.			
Simplify each expression using exponential notation.			
a.) (5 ³)(5 ⁴) ⁶ b.) (9a ³) ²			
Name the two integers each answer lies between.			
a.) 54 b.) 12 c.) 149			
Solve the system of equations by graphing. y = 3x + 2 y = -2x - 3			
Lines x and y are parallel and cut by transversal line $X \leftarrow c \ b \rightarrow$ z. Find the measures of a, b, Y c and d. Y			





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Problem	Work&Onswer	
Solve for a. $10 - \frac{1}{8}a = \frac{5}{8}a - 2$		
Write the quotient in scientific notation and in standard form. (3.64 x 10 ⁷) ÷ (2.6 x 10 ⁴)		
Reflect the shape along the y-axis. Record the new coordinates of each point on the new shape.		
Find the volume of a sphere with a radius of 2.1cm. Write your answer in terms of pi.		
Find the cubed root.		
$\sqrt[3]{\frac{176}{343}}$	Algebra I Summer Math © Amy Hearne	



LILL WeekTen LILL				
Problem	Work&Onswer			
A scientist is recording the weight of flower petals. Using the table write each weight using scientific	Flower Petal	Weight (ounces)	Weight in Scientific Notation	
notation.	1	0.00341		
	2	0.1980		
	3	0.000765		
Solve the equation for m. $\frac{25m - 1}{3} = 5m - 7$ Find the slope of the line that goes through the points (-1,3) and (-2, 1)				
Identify the slope in each linear equation below:				
a.) $y = \frac{1}{2}x - 5$ b.) $y = 3x$ c.) $y = 5$				
Rotate the given shape 90 degrees about the y-axis. Draw the new shape and record the new coordinates for points A, C, and E.			Algebra I Summer Math © Amy Hearne	