Grade 8 Week 29 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Homework: Monday, March 27, 2017**

***TRY YOUR BEST! SHOW ALL OF YOUR WORK! ☺☺ NO WORK! NO CREDIT!***

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| A line segment has endpoints located at (4, -5) and (-6, 7). What is the approximate length of the line segment? | Abby’s family is building a new house. On the blueprints of the house, Abby’s bedroom measures 3 inches by 3.75 inches. Her actual bedroom will measure 8 feet by 10 feet. What is the scale factor for the dilation?  |
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**Homework: Tuesday, March 28, 2017**

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| Thomaz and 23 of his classmates went on the 8th grade class trip to Washington. There are 8 more boys(y) than girls(x) on the trip. **Write** a system of equations that represents this scenario. (Hint: write one equation to represent how many **total** students are going and then write another equation to represent how many **boys versus girls** are going.) | **Solve** the system of equations using the substitution method to determine how many boys and how many girls went on the class trip.If you were to graph these equations on one coordinate plane, what coordinate point would the lines **intersect** at?  |
| Sample EOG: What is the **area** of the right triangle shown below? 15m9m |  A T-shirt iron-on measure 2 inches by 1 inch. It is enlarged by a scale factor of 3 for the front of the shirt. What are the dimensions of the enlarged iron-on?  |
| CCSS_C3_Ch4_L4_PS2.jpg The function *c* = 0.5*m* + 1 describes the cost *c* in dollars of a phone call that lasts *m* minutes made from a room at the Shady Tree Hotel. Graph the function. Use the graph to determine how much a 7-minute call will cost.  | Determine whether each graph is of a function or not a function. |

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| Sample EOG question:A system of equations is shown below.$$2x= -4y$$$$y=\frac{2}{4}x-3$$What is the x-value in the solution to the system of equations?1. -3 b) -1.5 c) 1.5 d) 3
 | Sample EOG question: In the table below, y is a linear function of x.

|  |  |
| --- | --- |
| **x** | **y** |
| 3 | 5 |
| 5 | -3 |
| 7 | -11 |

What is the value of y when x = 0?  |
| CCSS_C3_Ch6_L1_PS_3.jpg The figure shows a capital “N” plotted on a coordinate system. Find the coordinates of points *F* and *G* after the figure is translated 2 units right and 2 units down.  | CCSS_C3_Ch6_L3_HW_1.jpgRotate 90° clockwise about the origin and write the new coordinates.   |
| Sample EOG: The points (-3,-1) and ( -3, 5) are adjacent vertices of a rectangle. Two of the sides of the rectangle have a length of 8 units. What is the length of a diagonal of the rectangle?  | REVIEW: A company has set aside 107 dollars for annual employee bonuses. If the company has 104 employees and the money is divided equally among them, how much will each employee receive?  |