Grade 8 Week 31 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework: Monday, April 17, 2017**

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

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| Interpret the scatter plot.  CCSS_C3_Ch9_L1_HW_3.jpg | Marta bought a paperweight in the shape of a cone. The **radius** was 10 centimeters and the height 9 centimeters. Find the volume. Round to the nearest tenth. |
| Determine whether the plot of the data for each of the following shows a positive, negative, or no association. CCSS_C3_Ch9_L1_Reteach3.jpg | Ms. Barbour is purchasing balloons for a party for her mom’s birthday. Each spherical balloon is inflated with helium. How much helium is in the balloon if the balloon has a **radius** of 9 centimeters? Round to the nearest tenth. **\_\_\_\_\_\_\_\_\_\_\_\_**  Express your rounded answer to the previous question in scientific notation.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Determine whether the plot of the data for each of the following shows a positive, negative, or no association. CCSS_C3_Ch9_L1_Reteach4.jpg | What is the value of .· ? (Hint: Turn the repeating decimal into a fraction first.) |

**Homework: Tuesday, April 18, 2017**

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|  | The table to the left shows the number of people that attend an annual family reunion each year. Construct a scatter plot of the data and then draw a line of best fit.  Write an equation for the line of best fit.  Use the equation to make a conjecture about the number of people that might attend the reunion in the 15th year. |
| CCSS_C3_Ch9_L2_PS_2.jpg**Cleo’s baby pool has a leak. The scatter plot shows the amount of water left in the pool at the end of each 5-minute segment.**  Write an equation in slope-intercept form for the line that is drawn.  \_\_\_\_\_\_\_\_\_\_\_\_\_  Use the equation you wrote in problem one to make a conjecture about the amount of water left in the pool after 40 minutes. \_\_\_\_\_\_\_\_\_\_\_ | A piece of candy is in the shape of a cone. The height of the candy is 2 centimeters and the **diameter** is 1 centimeter. Find the volume. Round to the nearest tenth.  **V=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| What is the domain and range of the relation:  (1,9), (-3, 5), (5, 11), (-6, -7)  Domain: { }  Range: { }  Is this a function? Explain. |
| Find the volume of each sphere.  CCSS_C3_Ch8_L3_Skills2.jpg V=\_\_\_\_\_\_\_\_\_\_\_ | Find the volume of each hemisphere.  CCSS_C3_Ch8_L3_Skills8.jpg V=\_\_\_\_\_\_\_\_\_\_\_ |

**Homework: Wednesday, April 19, 2017**

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| Find the volume of a hemisphere that has a radius of 20 meters. (What is a hemisphere??)  **V=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | Identify the slope and the y-intercept:  y = 1/2x -3  slope= \_\_\_ y-int= \_\_\_  2x – 3y = 6  slope = \_\_\_ y-int = \_\_\_  CCSS_C3_Ch3_L2_HW2.jpg  slope = \_\_\_ y-int = \_\_\_ |
| A cylindrical waste can has a volume of 5,667.7 cubic inches and its base has a radius of 9.5 inches. Find the height of the waste can. Round to the nearest tenth. **(Write down your formula, fill in what you KNOW to find what you DON’T KNOW)**  **V=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | Solve each equation and CHECK YOUR ANSWER:    a = \_\_\_\_ |
| The number of pieces in a jigsaw puzzle and the number of minutes required for a person to complete is shown.   1. Make a scatter plot of the data based on the distribution. 2. Interpret/talk about/describe the scatter plot based on the distribution of the data. 3. Predict the length of time it will take to complete a 650 piece puzzle. |  |

**Homework: Thursday, April 20, 2017**

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| Videl watched 6 times as many hours of television over the weekend as Dineen. Together they watched a total of 14 hours of television. How many hours of television did each person watch over the weekend? Write and solve a system of equations that represents this situation. You can use substitution or graphing. | The function *d* = 18*g* describes the distance d that Rick can drive his truck on g gallons of gasoline. Graph this function. Why is it sufficient to graph this function in the upper right quadrant only? How far can Rick drive on 2.5 gallons of gasoline?  CCSS_C3_Ch4_L4_PS1.jpg |
| Solve each equation and CHECK YOUR ANSWER:    x = \_\_\_\_ | If two lines are parallel, they have:   1. No points of intersection 2. Infinitely many points of intersection 3. One Point of intersection 4. Either no points or infinitely many points of intersection   Based on your answer, how many solutions are there to a set of equations that are parallel lines? |
| A square has vertices *J*(–1, 4), *U*(5, 4), *M*(5, –2), *P*(–1, –2). After a dilation, square *JUMP* has vertices *J’*(–0.5, 2), *U’*(2.5, 2), *M’*(2.5, –1), *P’*(–0.5, –1). What is the scale factor of the dilation? | A birdhouse is in the shape of this figure. Suppose you wanted to fill the figure with birdseed. What is the volume of the figure? |