Grade 8 Week 28 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework: Monday, March 20, 2017**

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

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| |  |  | | --- | --- | | X | y | | -1 | -6 | | 0 | -3 | | 2 | 3 |   Function 1: y = 2x + 4 Function 2:  Which function has a greater rate of change? | In the baseball diamond shown, ∆*BEA ∆ARB*. If *BE* = 90 feet, what is AR? |
| Sample EOG question: When 8 is added to the number that is produced by doubling the number x, the result is equal to the number that is 5 less than x. What is the value of x? | Sample EOG question: What function is nonlinear?   1. c. y = - x 2. y = 2x(x - 4) |
| CCSS_C3_Ch7_L2_HW_1.jpgTriangles ABC and GHI are congruent. Write **congruence statements** comparing the corresponding parts. Then determine which transformation maps ΔABC onto ΔGHI. | CCSS_C3_Ch7_L6_PS1.jpgThe **slope** of a roof line is also called the pitch. Find the pitch of the roof shown. |

**Homework: Tuesday, Mach 21, 2017**

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| Graph triangle ABC with vertices *A*(2, 6), *B*(1, 1), and *C*(5, 3) and then reflect it over the **y-axis**. Show the new coordinates. | CCSS_C3_Ch7_L3_Skills2.jpg Determine if the two shapes are similar by using transformations. Explain. |
| C:\Users\Lorrie\Documents\graph.gifwhat is the equation of the line shown in the coordinate plane? | Two fitness centers charge a one-time membership fee, plus a monthly charge to use the facilities. Fitness center A charges a membership fee of $100, plus $45 a month. Fitness center B costs are shown in the table. What is the difference between the one-time membership fees at the two fitness centers? |
| Leave your answer in fraction form:   * 1. The endpoints of a line segment are (–1,5) and (9,-2). What is the slope of this line?   2. What is the slope of a line segment with endpoints at (–1,2) and (4,4)? | DRAW A DIAGRAM TO SOLVE. The Gateway Arch in St. Louis, Missouri, is 630 feet tall. Suppose a 12-foot-tall pole that is near the Arch casts a 5-foot shadow. How long is the Arch’s shadow? (\*Hint: set up a proportion) |

**Homework: Wednesday, March 22, 2017**

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| CCSS_C3_Ch7_L3_HW1.jpgDetermine if the triangles are **similar** by using transformations. EXPLAIN your reasoning. | The figure shows triangle *ABC* plotted on a coordinate plane. Explain how to find the slope of the line through points *A* and *B*. Then find the slope.  CCSS_C3_Ch3_L2_PS3.jpg |
| Sample EOG question: In which choice do all the points lie on the same line?  A (0, −2), (1, −1), (2, 2), (3, 7)  B (0, 0), (1, 1), (2, 4), (3, 9)  C (0, 0), (1, 1), (2, 8), (3, 27)  D (0, 0), (1, 2), (2, 4), (3, 6) | Sample EOG question:  What is the value of ?  Find the value of y when x=5. y = -3x + 2 |
| These polygons are similar. Find the missing measurement. (\*Hint: set up a proportion) | The average depth of the ocean is approximately 1.2 × 104 feet. How is this depth written in standard form? |

**Homework: Thursday, March 23, 2017**

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| Determine whether the polygons are similar. Show work. \*Hint: Start by setting up a proportion. | What is the solution to:  equDKMath784948_1 |
| Sample EOG question:  Kyle is a salesman. His monthly earnings include a fixed monthly salary and a commission that is a fixed percentage of his total sales for the month. Kyle’s total sales for the month of January were $50,000, and his total earnings for that month were $4,300. Kyle’s total sales for the month of February were $30,000, and his total earnings for that month were $3,550. What is Kyle’s fixed monthly salary in dollars? | Determine whether the relation is a function or not.   1. {(-5, -2), (-1, 1), (3, -6), (8, 1)} 2. {(2, -9), (2, -2), (6, 8), (8, 1), (11, -7)} 3. {(-8, 2), (-8, 8), (-1, 6), (4, 7), (7, 5)} |
| The figures are similar. Find the area and perimeter of the second figure. | How tall is the man in the picture? CCSS_C3_Ch7_L5_HW1.jpg |