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. $y=\frac{3x+1}{2}$ c. y = - x
2. y = 2x(x - 4) $d. y=\frac{1}{2}x-7$
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| 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 $\frac{4^{3 }∙ 4^{-1 }∙ 5^{-2}}{4^{4} ∙ 5^{-3} ∙ 5^{0}}$ ? 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 |