**Name: Weekly Math Homework – Q1:Wk5 Cohort: www.mrarchermath.weebly.com**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| 1) Kenyon is a writer, he can type 1 ½ pages in ¾ of minute. At this rate how many pages can he type in 5 minutes? | 5) Mr. Archer can swim 10 laps in 2 ½ minutes. At this rate how many laps does he swim per minute? | 9) Antonio scored 27 points in 12 minutes in his last basketball game. How many points did he score each minute on the court? | 13) Jessica road her bike 2 ¾ miles in 4/5 of an hour. At this rate how long would it take to ride a single mile? |
| 2) A rectangular garden measures 2 feet wide and 6 inches long on blueprint. If the blueprint was enlarged by as scale of 20. What would the perimeter of the actual garden measure? | 6) A building measures 100 feet tall and casts a shadow on the ground of 25 feet long. A tree next to it measures 12 feet tall, how many feet would its shadow cast? | 10) A right-triangular support beam for a new bridge needed to be enlarged to support heavier traffic flows. If the based of the beam measures 10 feet and the height of the beam measures 15 feet and is enlarged by a scale factor of 2.5 what are the new dimensions of the beam? | 14) An engineer measures 6 feet tall and casts a shadow of 2 feet. If they are standing next to a rocket whose shadow measures 32 feet, how tall is the rocket? |
| 3) Combine like terms  2x + 3y + 5 – 2x +10y - 5 | 7) Combine like terms  10a + 2 + 7b – 5b + 2a – 1 | 11) Combine like terms  ½ (x + 2y) + 3(2y + 7x) | 15) Combine like terms  ¾(12n + 8) + ½(n + 10) |
| 4) On a map Raleigh and Charlotte measure 4 inches apart. If the scale ½ inches = 50 miles. How far apart of the cities in miles? | 8) A construction worker is reading a building print of a new Walmart. The scale used on the blueprint is 0.5 in = 3 ft. If the entrance for the front door measures 1.25 inches on the blueprint, how big is the entrance in feet? | 12) A globe uses a scale of 1 cm = 500 km. If the closest coasts of Africa and Australia measures 4.25 cm, how many kilometers are the two continents? | 16) A floor plan uses a scale of 1.25 inches represents 10 feet. If the dimensions of a living room measure 3 inches by 2.5 inches. What is the area of the room? |