**Name: Weekly Math Homework – Q2:Wk5**

**Cohort: www.mrarchermath.weebly.com**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| 1.) Michelle is able to run 2 ¾ miles in ½ hour. At this rate how long would it take her to run 12 miles? | 5.) The Wilson family is going out for breakfast to Wafflehouse. Their bill comes to a total of $42.98. If they want to leave an 18% tip for the waitress, how much would they spend in total? | 9.) To travel from uptown Charlotte to the airport an Uber driver charges $15. If you want to leave a 20% tip and only have a $20 bill, how much change would you receive? | 13.) Combine like terms -5x + 7 – 2x + 9 |
| 2.) A map uses a scale of 1.25 cm = 50 km. If a map shows to cities as 5 centimeters apart, how many kilometer are they in reality? | 6.) Daniel earned $8.00 per hour at his job and works 35 hours each week. Last week he received a 5% pay increase. How much more will Daniel earn now after the pay increase? (HINT: Find the difference between his old pay each week versus his new pay) | 10.) NO CALCULATOR!A library has 15,000 fiction books and 10,000 nonfiction books.* $\frac{2}{3}$ of the fiction books were checked out
* $\frac{1}{5}$ of the nonfiction books were checked out
* Of the books checked out, $\frac{3}{4}$ were returned

How many books were returned? | 14.) Combine like terms 2.75y – 1.25x – 3.75x – 5.25y |
| 3.) A car used 1/64 of a gallon of gas to drive ¼ of a mile. At this rate, how many miles can the car travel using 1 gallon of gas? | 7.) Tony bought a $48 sweatshirt and used a coupon for a 10% off discount. Keith bought an identical sweatshirt at a different store for $42.95. Who paid less for the sweatshirt?  | 11.) A gardener wants to enlarge the perimeter of his garden by a scale of 8 times. If the garden has a length of 15 feet and a width of 12 feet, what would the new perimeter be after the garden is enlarged? | 15.) According to the graph below what is the coast per foot for the cedar fence? |
| 4.) A model toy truck is 2.5 feet long. If a toy maker uses a scale of 0.25 feet on the model represents 2 feet in reality. How long is the actual truck? | 8.) There were 100 contestants at the state science fair. Of those contestants 30% were 7th graders. Of those 7th graders, 15% were CMS students. How many 7th grade students from CMS were at the state science fair? | 12) Combine like terms 2a – 5b + 7 – 3b + 2a - 11 | 16.) Combine like terms -0.72n + 1.24x – 5.74n + 144 |