Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Weekly Spiral Questions - Quarter 2 Week 1**

Show all work on a separate paper and attach it to the back. Be sure to label your answers appropriately! **(Calculator Inactive)**

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| --- | --- |
| 1. In Canada September, the average low is about 50$℉$, but the average low decreases by 20 degrees per month for the next couple of months. What is the average low in December? | **Answer:** |
| 2. What does x equal when$ 3^{x}=243$? | **Answer:** |

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| --- | --- |
| 3. Evaluate. $$9^{2}-45÷5+8$$ | **Answer:****\_\_\_\_\_\_\_\_\_\_\_** |

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| 4. What is $1\frac{1}{2} $divided by $\frac{2}{5}$ ? | **Answer:** |

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| --- | --- |
| 5. The Volume of a cube can be calculated using the formula$ $$V=s^{3}$, where s represents the length of a side. What is the volume of a cube in cubic inches if the length of a side is $\frac{1}{5} $in? | **Answer:** |
| 6. What is the value of the expression $6x-2y+5^{y}$ when **x=10** and **y=3**? | **Answer:** |

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| --- | --- |
| 7. Erin is a homebuilder and owns land that is $\frac{5}{3}$ miles along a shoreline. The town building codes require that each house has a lot of at least $\frac{1}{12}$ of a mile. What is the greatest number of houses Erin can build along the shoreline? | **Answer:** |
| 8. A coin maker has 483.69 pounds of nickel to create coins. Each nickel coin weighs 0.23 pounds. How many nickel coins can be made? | **Answer:** |