***OBJECTIVES:***

* Analyze data.
* Define ratio.
* Find percentages.
* Use proportions.
* Do conversions.
* Find probabilities.
* Interpret two-way tables.
* Interpret bar charts.
* Interpret scatterplots.

***WEDNESDAY (9.4.24)***

* **Check your answers for the previously assigned classwork/homework:** SAT Questions #9 – 18 on the handout.
* **Discuss how you solved #9 – 13.**
* **Finish #14 – 18 if you have not already done so.**

***FRIDAY (9.6.24****)*

* **Discuss how you solved** #14 – 18.
* **Homework:** More data analysis problems. See page 2.

1. **When *y* is decreased by ten percent, the result is equal to fifteen percent of *x*. Assuming both *x* and *y* are nonzero, what is the ratio of *x* to *y*?**
2. 1/6
3. 3
4. 6
5. 18
6. 1/3
7. **Nancy is visiting her grandmother who lives**200km**from her home. Her car’s tank has a full tank (**20**liters) at the beginning of her drive and uses**1**liter to drive**6**kilometers. How many liters will she need to refill to reach her grandmother’s house with**0**liters left in the tank?**

A) 13.3 liters

B) 9.8 liters

C) 20 liter

D) She will not need to refill.

 **3) Students in a school can either choose to have a hot dinner or packed lunch. The table below shows some information about the choices of the 4th grade students:**

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**a) One of the students is chosen at random. What is the probability that they have a packed lunch and are a boy? Give your answer as a decimal. \_\_\_\_\_\_\_\_**

**b) One of the students who chose a hot dinner is chosen at random. What is the probability that they are a girl? \_\_\_\_\_\_\_\_\_\_\_**

**4)  The table below shows some information about the number of employed and unemployed people in a town.**

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**Find the probability that a person chosen at random is unemployed. Give your answer to three decimal places. \_\_\_\_\_\_\_\_\_\_\_**