**CCHS Mathematics III**

**Credit 5B Assessment Study Guide**

Define the following Mathematical Terms

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| Distribution Curve | Mean | Average | Median  |
| Percentage | Deviation | Standard Deviation | Significant Result  |
| Z-score | Normal Distribution68-95-99.7 Rule | Histograms | Bar Chart |
| Bell Curve | Skewed Right | Skewed Left | Outlier |
| Symmetrical | Bin Modal | Bi-modal | Multi-Modal |
| Random Sample | Stratified Sample | Cluster Sample | Voluntary Sample |
| Voluntary Response Sample | Systematic Sample | Cause | Experiment |
| Observational Study | probability | parameter | Survey as an instrument |
| µ | α | σ | ρ |

Understand the following Tasks

1. Given a mean and standards deviation graph a normal distribution curve using the 68-95-99.7 Rule
2. Determine the percent of students within 1 standard deviation of the mean
3. Determine the percent of participant’s data from viewing a normal distribution curve.
4. Determine percentages from a 2 X 2 table.
5. Match scenarios to type of sample.
6. Determine scenario based on reading the context.
7. Reading the context identify an experiment.
8. Reading the context identify a survey.
9. Reading the context identify an observational study.
10. Reading the context identify a voluntary response.
11. Given a data set, mean, standard deviation to compare scores and make inferences.
12. Make estimates to a population based on the results from a sample size.
13. Determine the mean, standard deviation for the graph of a normal curve.
14. Understand relationship between z-score and probability.
15. Given a two-way frequency table determine P (B), P (G/S), and P (G υ S).
16. What type of sample uses 200 girls and 200 boys?
17. Write and argumentative and explanatory response to a scenario using a five paragraph format and supporting evidence including a bibliography.