

TABLE OF CONTENTS

Licensing

1: Decimals Fractions and Percents

- 1.1: Comparing Fractions, Decimals, and Percents
- 1.2: Converting Between Fractions, Decimals and Percents
- 1.3: Decimals- Rounding and Scientific Notation
- 1.4: Using Fractions, Decimals and Percents to Describe Charts

2: The Number Line

- 2.1: Distance between Two Points on a Number Line
- 2.2: Plotting Points and Intervals on the Number Line
- 2.3: Represent an Inequality as an Interval on a Number Line
- 2.4: The Midpoint

3: Operations on Numbers

- 3.1: Area of a Rectangle
- 3.2: Factorials and Combination Notation
- 3.3: Order of Operations
- 3.4: Order of Operations in Expressions and Formulas
- 3.5: Perform Signed Number Arithmetic
- 3.6: Powers and Roots
- 3.7: Using Summation Notation

4: Sets

- 4.1: Set Notation
- 4.2: The Complement of a Set
- 4.3: The Union and Intersection of Two Sets
- 4.4: Venn Diagrams

5: Expressions, Equations and Inequalities

- 5.1: Evaluate Algebraic Expressions
- 5.2: Inequalities and Midpoints
- 5.3: Solve Equations with Roots
- 5.4: Solving Linear Equations in One Variable

6: Graphing Points and Lines in Two Dimensions

- 6.1: Finding Residuals
- 6.2: Find the Equation of a Line given its Graph
- 6.3: Find y given x and the Equation of a Line
- 6.4: Graph a Line given its Equation
- 6.5: Interpreting the Slope of a Line
- 6.6: Interpreting the y-intercept of a Line
- 6.7: Plot an Ordered Pair

7: Geometry

- 7.1: Angles
- 7.2: The Area of a Rectangle and Square
- 7.3: The Area of a Triangle
- 7.4: Pythagorean Theorem

8: Sampling and Data

- 8.1: Introduction
- 8.2: Definitions of Statistics, Probability, and Key Terms
- 8.3: Data, Sampling, and Variation in Data and Sampling
- 8.4: Frequency, Frequency Tables, and Levels of Measurement
- 8.5: Experimental Design and Ethics
- 8.6: Data Collection Experiment (Worksheet)
- 8.7: Sampling Experiment (Worksheet)
- 8.E: Sampling and Data (Exercises)

9: Descriptive Statistics

- 9.1: Prelude to Descriptive Statistics
- 9.2: Stem-and-Leaf Graphs (Stemplots), Line Graphs, and Bar Graphs
- 9.3: Histograms, Frequency Polygons, and Time Series Graphs
- 9.4: Measures of the Location of the Data
 - 9.4E: Measures of the Location of the Data (Exercises)
- 9.5: Box Plots
- 9.6: Measures of the Center of the Data
- 9.7: Skewness and the Mean, Median, and Mode
- 9.8: Measures of the Spread of the Data
- 9.9: Descriptive Statistics (Worksheet)
- 9.E: Descriptive Statistics (Exercises)

10: Probability Topics

- 10.1: Introduction
- 10.2: Terminology
- 10.3: Independent and Mutually Exclusive Events
- 10.4: Two Basic Rules of Probability
- 10.5: Contingency Tables
- 10.6: Tree and Venn Diagrams
- 10.7: Probability Topics (Worksheet)
- 10.E: Probability Topics (Exercises)

11: The Normal Distribution

- 11.1: Prelude to The Normal Distribution
- 11.2: The Standard Normal Distribution
 - 11.2E: The Standard Normal Distribution (Exercises)
- 11.3: Using the Normal Distribution
- 11.4: Normal Distribution - Lap Times (Worksheet)
- 11.5: Normal Distribution - Pinkie Length (Worksheet)
- 11.E: The Normal Distribution (Exercises)

[Index](#)

[Glossary](#)

[Detailed Licensing](#)