

Introductory Statistics with Basic Math Coreq Support: A Targeted Approach | Table of Contents**Chapter 1: Foundations****1.1 Introduction to Whole Numbers**

- Place Values and Rounding
 - Identify the place value of a digit and write a whole number using words or digits - Corequisite Support
 - Round whole numbers - Corequisite Support
- Prime Factorization and Least Common Multiples
 - Identify multiples and apply divisibility tests - Corequisite Support
 - Find the prime factorization of a number - Corequisite Support
 - Find the least common multiple of two numbers - Corequisite Support

1.2 Use the Language of Algebra

- Use Variables and Algebraic Symbols
 - Translate algebraic expressions, equations, and inequalities into English and recognize expressions and equations - Corequisite Support
 - Evaluate a whole number raised to a power and understand the terminology - Corequisite Support
- Order of Operations and Simplifying Expressions
 - Simplify an expression using order of operations - Corequisite Support
 - Evaluate an expression - Corequisite Support
 - Identify coefficients and identify and combine like terms - Corequisite Support
- Rewrite English Phrases into Algebraic Expressions
 - Translate an English phrase to an algebraic expression - Corequisite Support
 - Translate English phrases from applications into algebraic expressions - Corequisite Support

1.3 Add and Subtract Integers

- Introduction to Integers and Absolute Value
 - Order integers using inequality symbols and determine the opposite of integers or variables - Corequisite Support
 - Evaluate an absolute value expression - Corequisite Support
 - Simplify an expression involving absolute value using order of operations - Corequisite Support
- Adding and Subtracting Integers
 - Add integers - Corequisite Support
 - Subtract integers - Corequisite Support
 - Add and subtract integers using order of operations - Corequisite Support

1.4 Multiply and Divide Integers

- Multiplying and Dividing Integers
 - Multiply integers - Corequisite Support
 - Divide integers - Corequisite Support
 - Simplifying Expressions with Integers
 - Simplify expressions with integers using order of operations - Corequisite Support
 - Evaluate a variable expression with integers - Corequisite Support
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- Algebraic Expressions and Applications with Integers
 - Translate an English phrase to an algebraic expression with integers - Corequisite Support
 - Use integers in applications - Corequisite Support

1.5 Visualize Fractions

- Simplifying Fractions
 - Identify when fractions are equivalent - Corequisite Support
 - Simplify a fraction - Corequisite Support
- Multiplying and Dividing Fractions
 - Multiply fractions - Corequisite Support
 - Divide fractions - Corequisite Support
 - Simplify complex fractions - Corequisite Support
- Understanding Expressions with Fractions
 - Simplify expressions written with a fraction bar - Corequisite Support
 - Translate an English phrase to an expression with fractions - Corequisite Support

1.6 Add and Subtract Fractions

- Adding and Subtracting Fractions
 - Add or subtract fractions with a common denominator - Corequisite Support
 - Add or subtract fractions with different denominators - Corequisite Support
- Algebraic Expressions with Fractions
 - Use the order of operations to simplify complex fractions and expressions with multiple operations - Corequisite Support
 - Evaluate variable expressions with fractions - Corequisite Support

1.7 Decimals

- Understanding and Rounding Decimals
 - Name and write decimals - Corequisite Support
 - Round decimals - Corequisite Support
- Operations with Decimals
 - Add and subtract decimals - Corequisite Support
 - Multiply decimals - Corequisite Support
 - Divide decimals - Corequisite Support
- Decimals, Fractions, and Percents
 - Convert between fractions and decimals - Corequisite Support
 - Simplify expressions with fractions and decimals - Corequisite Support
 - Convert between decimals and percents - Corequisite Support
 - Convert between percent, decimals, and fractions - Corequisite Support

1.8 Square Roots and the Real Number System

- Square Roots and the Real Number System
 - Identify rational and irrational numbers - Corequisite Support
 - Identify real numbers - Corequisite Support
 - Evaluate a square root - Corequisite Support
 - Estimate square roots and approximate square roots - Corequisite Support
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- Fractions and Decimals on the Number Line
 - Locate fractions on a number line and write inequality statements involving fractions - Corequisite Support
 - Locate decimals on a number line and write inequality statements involving decimals - Corequisite Support
- Working with Exponents and Square Roots
 - Understand exponents - Corequisite Support
 - Calculate square roots
 - Understand exponent rules
 - Understand integer exponents

1.9 Properties of Real Numbers

- Properties of the Real Number System
 - Use the commutative and associative properties - Corequisite Support
 - Identify additive and multiplicative inverses of a number - Corequisite Support
 - Understand the multiplication and division properties of zero - Corequisite Support
 - Simplify expressions using properties of identities, inverses, and zero - Corequisite Support
- The Distributive Property
 - Simplify expressions using the distributive property - Corequisite Support
 - Simplify expressions by distributing a negative number - Corequisite Support

1.10 Systems of Measurements

- Unit Conversion in the US System
 - Make unit conversions in the US system - Corequisite Support
 - Use mixed units of measurement in the US system - Corequisite Support
- Unit Conversion in the Metric System
 - Make unit conversions in the metric system - Corequisite Support
 - Use mixed units of measurement in the metric system - Corequisite Support
- Unit Conversion Between Systems
 - Convert between the US and metric systems of measurement - Corequisite Support
 - Convert between Fahrenheit and Celsius temperatures - Corequisite Support

Chapter 2: Solving Linear Equations and Inequalities

2.1 Solve Equations Using the Subtraction and Addition Properties of Equality

- Solve Equations with the Subtraction and Addition Properties of Equality
 - Verify a solution of an equation - Corequisite Support
 - Solve an equation that require simplification using the subtraction and addition properties of equality - Corequisite Support
 - Solve an equation using the subtraction and addition properties of equality - Corequisite Support
 - Solve an equation involving fractions or decimals using the subtraction and addition properties of equality - Corequisite Support
 - Application Problems and the Subtraction and Addition Properties of Equality
 - Translate an English sentence to an algebraic equation and solve using the subtraction and addition properties of equality - Corequisite Support
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- Use the subtraction and addition properties of equality to solve application problems - Corequisite Support
- 2.2 Solve Equations Using the Division and Multiplication Properties of Equality
- Solve Equations with the Division and Multiplication Properties of Equality
 - Solve an equation using the division and multiplication properties of equality - Corequisite Support
 - Solve an equation involving fractions or decimals using the division and multiplication properties of equality - Corequisite Support
 - Solve an equation that requires simplification using the division and multiplication properties of equality - Corequisite Support
 - Application Problems and the Division and Multiplication Properties of Equality
 - Translate an English sentence to an algebraic equation and solve using the division and multiplication properties of equality - Corequisite Support
 - Use the division and multiplication properties of equality to solve application problems - Corequisite Support
- 2.3 Solve Equations with Variables and Constants on Both Sides
- Solving Linear Equations
 - Solve an equation with constants on both sides - Corequisite Support
 - Solve an equation with constants and variables on both sides - Corequisite Support
 - Solve an equation with variables on both sides - Corequisite Support
- 2.4 Use a General Strategy to Solve Linear Equations
- General Strategies for Solving Linear Equations
 - Solve an equation using the distributive property with variables on one side - Corequisite Support
 - Solve an equation using the distributive property with variables on both sides
 - Classify equations as conditional, identity, or a contradiction
- 2.5 Solve Equations with Fractions or Decimals
- Solving Linear Equations with Fractions
 - Solve an equation involving fractions with variables on both sides - Corequisite Support
 - Solve an equation involving fractions by eliminating the fractions - Corequisite Support
 - Solve an equation involving fractions by eliminating the fractions and other steps - Corequisite Support
 - Solve Linear Equations with Decimals
 - Solve an equation involving decimals with variables on both sides - Corequisite Support
 - Solve an equation involving decimals by clearing the decimals - Corequisite Support
- 2.6 Solve a Formula for a Specific Variable
- Distance, Rate, and Time and Literal Equations
 - Use the distance, rate, and time formula - Corequisite Support
 - Solve a formula for a specific variable - Corequisite Support
- 2.7 Solve Linear Inequalities
- Inequalities, the Number Line, and Interval Notation
 - Graph an inequality on the number line - Corequisite Support
 - Express an inequality using interval notation - Corequisite Support
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- Solving One-Step Linear Inequalities
 - Solve an inequality using the subtraction and addition properties of inequality - Corequisite Support
 - Solve an inequality using the division and multiplication properties of inequality - Corequisite Support
- Solving Linear Inequalities
 - Solve an inequality that requires simplification - Corequisite Support
 - Classify an inequality as conditional, identity, or contradiction - Corequisite Support
 - Translate an English sentence into an inequality and solve - Corequisite Support

Chapter 3: Math Models

3.1 Use a Problem-Solving Strategy

- An Introduction to Problem Solving
 - Use a problem-solving strategy for word problems - Corequisite Support
 - Solve a number problem - Corequisite Support
 - Solve a number problem involving consecutive integers - Corequisite Support

3.2 Solve Percent Applications

- Percent Problems and Percent Increase and Decrease
 - Translate and solve basic percent equations - Corequisite Support
 - Solve basic applications of percent - Corequisite Support
 - Find percent increase or percent decrease - Corequisite Support
- Simple Interest and Discounts
 - Solve applications involving the simple interest formula - Corequisite Support
 - Solve applications with discount or mark-up - Corequisite Support

3.3 Solve Mixture Applications

- Solve Mixture Word Problems
 - Solve coin word problems - Corequisite Support
 - Solve ticket and stamp word problems - Corequisite Support
 - Use the mixture model to solve word problems - Corequisite Support

3.4 Solve Geometry Applications - Triangles, Rectangles, and the Pythagorean Theorem

- Triangles and the Pythagorean Theorem
 - Solve problems involving the perimeter, area, and interior angles of triangles - Corequisite Support
 - Solve triangle problems where angles or sides are given in terms of other angles or sides - Corequisite Support
 - Solve triangle problems using the Pythagorean Theorem - Corequisite Support
- Area and Perimeter of Rectangles
 - Solve problems involving the perimeter and area of rectangles - Corequisite Support
 - Solve rectangle problems when the width is given in terms of the length - Corequisite Support

3.5 Solve Uniform Motion Applications

- Uniform Motion
 - Solve uniform motion applications - Corequisite Support
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3.6 Solve Applications with Linear Inequalities

- Problem Solving with Linear Inequalities
 - Solve one-step applications with linear inequalities - Corequisite Support
 - Solve applications with linear inequalities - Corequisite Support

Chapter 4: Graphs

4.1 Use the Rectangular Coordinate System

- Reading Graphs and the Rectangular Coordinate System
 - Plot points on a rectangular coordinate system - Corequisite Support
 - Verify the solution to an equation in two variables - Corequisite Support
 - Complete a table of solutions to a linear equation in two variables - Corequisite Support
 - Find solutions to a linear equation - Corequisite Support

4.2 Graph Linear Equations in Two Variables

- Graphing Linear Equations
 - Recognize the relationship between the solutions of an equation and its graph - Corequisite Support
 - Graph a linear equation by plotting points - Corequisite Support
 - Graph a linear equation in standard form by plotting points - Corequisite Support
 - Graph vertical and horizontal lines - Corequisite Support

4.3 Graph with Intercepts

- Intercepts on the Coordinate Plane
 - Identify the x- and y-intercepts on a graph - Corequisite Support
 - Find the x- and y-intercepts from an equation of a line - Corequisite Support
 - Graph a line using the x- and y-intercepts - Corequisite Support

4.4 Understand Slope of a Line

- Understanding Slope
 - Use a geoboard to model slope - Corequisite Support
 - Use the relationship between rise and run to find the slope of a line from its graph - Corequisite Support
 - Find the slope of horizontal and vertical lines - Corequisite Support
 - Interpreting Slope as a Rate of Change - Corequisite Support
- The Slope Formula
 - Use the slope formula to find the slope of a line between two points - Corequisite Support
 - Graph a line given a point and the slope - Corequisite Support
 - Determine the slope in applications - Corequisite Support

4.5 Use the Slope-Intercept Form of an Equation of a Line

- Slope-Intercept Form
 - Identify the slope and y-intercept from an equation of a line and relate a graph to the equation - Corequisite Support
 - Graph a line given its equation using its slope and y-intercept - Corequisite Support
 - Graph lines using a variety of methods - Corequisite Support
 - Graph and interpret applications of slope-intercept - Corequisite Support
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- Parallel and Perpendicular Lines
 - Use slopes to identify parallel lines - Corequisite Support
 - Use slopes to identify perpendicular lines - Corequisite Support

4.6 Find the Equation of a Line

- Equations of Lines
 - Find an equation of the line given the slope and y-intercept - Corequisite Support
 - Find an equation of the line given the slope and a point - Corequisite Support
 - Find an equation of the line given two points - Corequisite Support
- Equations of Parallel and Perpendicular Lines
 - Find an equation of a line parallel to a given line - Corequisite Support
 - Find an equation of a line perpendicular to a given line - Corequisite Support

4.7 Graphs of Linear Inequalities

- Graphing Linear Inequalities
 - Verify solutions to an inequality in two variables - Corequisite Support
 - Recognize the relationship between the solutions of an inequality and its graph - Corequisite Support
 - Graph a linear inequality - Corequisite Support

4.8 Introduction to Functions

- Introduction to Functions
 - Evaluate a function using function notation - Corequisite Support
 - Understand function notation - Corequisite Support
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