





Unit A	Operations and Expressions	
Module 1	Getting Ready for Algebra	
1.1	Defining Sets and Real Numbers	Calculator Exercises
	 Elements of a Set 	
	Subsets	
	Disjoint Sets	
	Intersection of Two Sets	
	Empty Set	
	Union of Sets	
	 Natural Numbers, Whole Numbers, Integers 	
	Rational Numbers	
	Irrational Numbers	
	Number Line	
	Conclusion	
1.2	Simplifying Expressions with Integers	
	Adding Integers	
	Subtracting Integers	
	Multiplying Integers	
	Dividing Integers	
	Conclusion	
1.3	Simplifying Expressions with Rational Numbers	
	 Operations with Fractions 	
	Multiplying Fractions	
	• LCD	
	Adding Fractions	
	Subtracting Fractions	
	Dividing Fractions	
	Adding Decimals	
	Subtracting Decimals	
	Multiplying Decimals	
	Dividing Decimals	
	Conclusion	
1.4	Simplifying Expressions with Exponents and Roots	
	Exponential Expressions	
	Zero Exponent	
	Positive Bases	
	Negative Bases to Even Powers	
	Negative Bases to Odd Powers	
	Square Roots and Cube Roots	
15	Conclusion Applying the Order of Operations	
1.5	Applying the Order of Operations	
	Order of Operations without Grouping Symbols of Exponents Order of Operations without Crouping Symbols	
	Order of Operations Without Glouping Symbols Order of Operations Using All Stops	
	Order of Operations Using All Steps Order of Operations with Two Lovels of Nested Grouping Symbols	
	Conclusion Conclusion	
Module 2	Writing and Simplifying Algebraic Expressions	
2 1	Using the Language of Algebra	Manipulatives – Algebra Tiles
2.1	Variable	
	Algebraic Expression	
	Term	
	Monomials	
	Coefficients	
	Polynomials	
	Special Polynomials	
	Degree of a Monomial	
	Degree of a Polynomial	
	Conclusion	
2.2	Translating Word Phrases into Algebraic Expressions	
	Expressions with One Operation	







	 Exponents More Than One Operation Conclusion 	
2.3	Identifying Algebraic Properties	Manipulatives – Algebra Tiles
	Commutative Property of Addition	
	Associative Property of Addition Commutative Property of Multiplication	
	Associative Property of Multiplication	
	Identity Property of Addition	
	Zero Property of Multiplication	
	Identify Property of Multiplication	
	Multiplicative Inverse	
	Additive Inverse	
	Distributive Property	
24	Conclusion Combining Like Terms	Manipulatives – Algebra Tiles
2.4	Term and Coefficient	Manipulatives – Algebra Tiles
	Adding Polynomials	
	Subtracting Polynomials	
	Conclusion	
2.5	Evaluating Expressions	
	Algebraic Expression	
	Baseball Application Problem Evolucting Exponential Expressions	
	 Evaluating Exponential Expressions Evaluating Expressions with Roots 	
	Evaluating Expressions with Roots Evaluating Formulas	
	Conclusion	
Unit B	Equations and Inequalities of One Variable	
Module 3	Solving Linear Equations of One Variable	
3.1	Equality Equality	
	Reflexive Property of Equality	
	Symmetric Property of Equality	
	Transitive Property of Equality	
	Addition Property of Equality	
	 Subtraction Property of Equality 	
	Multiplication Property of Equality	
	Division Property of Equality	
	Algebraic Proof Conclusion	
3.2	Conclusion Solving Equations by Inspection	Manipulatives – Beans
0.2	Solving Addition Equations by Inspection	Manipulatives Beans
	 Solving Subtraction Equations by Inspection 	
	Solving Multiplication Equations by Inspection	
	 Solving Division Equations by Inspection 	
	Conclusion	
3.3	Solving One-Step Linear Equations	Manipulatives – Algebra Tiles
	Solving One-Step Equations Using Division	
	Solving One-Step Equations Using Multiplication Solving One-Step Equations Using Addition	
	Solving One-Step Equations Using Subtraction	
	Conclusion	
3.4	Solving Two-Step Linear Equations	Manipulatives – Algebra Tiles
	Working Backwards	. 2
	 Solving Two-Step Equations 	
	Conclusion	
3.5	Solving Multi-Step Linear Equations	Manipulatives – Algebra Tiles
	Solving Multi-Step Equations - Combining Like Terms	
	 Solving Multi-Step Equations - Variable Terms on Both Sides of the Identify Equation 	ne Equation







	Solving Multi-Step Equations - No Solution Solving Multi-Step Equations - Distributive Property	
	Solving Multi-Step Equations - Distributive Property Solving Multi-Step Equations - Eractions	
	Conclusion	
3.6		Applications
5.0	Defining Formula	Applications
	Lising the Area Formula	
	Rewriting the Area Formula	
	Rewriting the Perimeter Formula	
	Rewriting Temperature Formulas	
Module 4	Solving Problems Using Linear Equations of One Variable	
4 1	Translating Sentences into Algebraic Equations	Applications
	Writing a Sentence as an Equation	ripplicationic
	Writing a Sentence as an Equation with Parentheses	
	Writing a Sentence as an Equation with architeses Writing a Sentence as an Equation for Real-World Situations	
	Conclusion	
4.2	 Colliciation Solving Consumer/Business Problems Lising Equations of One Variable Calculator Exercises 	
7.2	Steps to Solving Consumer/Business Problems	, Applications
	Consecutive Integers	
	Finding Percent in Consumer/Business Problems	
	Participation of Participation Participation	
	Conclusion	
43	Solving Geometry Problems Lising Equations of One Variable	Applications
4.0	Perimeter Problems	Applications
	Angle Sum Problems	
4 4	Solving Mixture and Rate Problems Lising Equations of One Variable	Applications
	Mixture Problems without Percents	ripplicationic
	Mixture Problems with Percents	
	Distance Problems	
	Conclusion	
Module 5	Solving linear Inequalities of One Variable	
5.1	Solving Linear Inequalities by Inspection	
	Inequality Symbols	
	Solution of an Inequality	
	Graphing Linear Inequalities	
	Conclusion	
5.2	Solving One-Step Linear Inequalities	
	 Solving One-Step Inequalities by Addition or Subtraction 	
	 Solving One-Step Inequalities by Multiplying of Dividing by a Positive Number 	
	Solving One-Step Inequalities by Multiplying or Dividing by a Negative Number	
	Conclusion	
5.3	Solving Two-Step Linear Inequalities	
	 Solving Two-Step Inequalities - Inequality Symbol Does Not Reverse 	
	 Solving Two-Step Inequalities - Inequality Symbol Reverses 	
	Conclusion	
5.4	Solving Multi-Step Linear Inequalities	
	 Solving Inequalities with Variables on Both Sides 	
	 Solving Multi-Step Inequalities Involving Simplifying Expressions 	
	Conclusion	
5.5	Solving Conjunction Inequalities	
	 Defining and Graphing Conjunctions 	
	 Solving Multi-Step Conjunctions 	
	Conclusion	
5.6	Solving Disjunction Inequalities	
	Defining Disjunctions	
	Solving Multi-Step Disjunctions	
	Conclusion	
5.7	Solving Problems Using Inequalities of One Variable	Applications







	 Solving Problems with One-Step Inequalities 	
	 Solving Problems with Two-Step Inequalities 	
	 Solving Problems with Multi-Step Inequalities 	
	Conclusion	
Module 6	Solving Absolute Value Equations and Inequalities	
6.1	Solving Basic Absolute Value Equations	
	Absolute Value Defined	
	 Solve the Absolute Value of x=a, a <u>> 0</u> 	
	 Solve the Absolute Value of ax + b =k, k ≥0 	
	 Solving Basic Absolute Value Equations with One or No Solution 	
	Conclusion	
6.2	Solving Advanced Absolute Value Equations	
	Isolating the Absolute Value One-Step	
	Isolating the Absolute Value Two-Step	
<u> </u>	Conclusion Calcier a lating "Abactive Makes to Loss There"	
0.3	Solving Inequalities Using Absolute Value is Less Than	
	Solving One-Step Inequalities Containing Absolute Value is Less Than	
	 Solving Two-Step Inequalities Containing Absolute Value is Less Than Jaclating the Absolute Value Everageien when Solving Inequalities with Absolute Value is 	
	Isolating the Absolute value Expression when Solving inequalities with Absolute value is	
64	 Conclusion Solving Inequalities Lising "Absolute Value is Greater Than" 	
0.4	Evolution the Steps of Solving Inequalities Containing Absolute Value is Greater Than	
	 Solving "Two-Step" Inequalities Containing Absolute Value is Greater Than 	
	Isolating the Absolute Value Before Solving Inequalities with Greater Than	
	Conclusion	
6.5	Solving Problems Using Absolute Value Equations and Inequalities	Applications
	Modeling with Inequalities Using Absolute Value Less Than	
	Modeling Using Absolute Value Equations	
	 Modeling with Inequalities Using Absolute Value Greater Than 	
	Conclusion	
Unit C	Equations and Inequalities of Two Variables and Functions	
Module 7	Solving Linear Equations and Inequalities of Two Variables	
7.1	Defining Linear Equations of Two Variables and Their Solutions	
	 Solutions of a Linear Equation 	
	Cartesian Coordinate System	
	Plotting Points	
	 Graph of the Solutions of a Linear Equation 	
	 Showing All Solutions of a Linear Equation 	
	Special Case-Horizontal Lines	
	Special Case-Vertical Lines	
7.0	Conclusion	
1.2	Graphing Linear Equations of Two Variables	
	Graphing Linear Equations Using Tables	
	Graphing Linear Equations Using Intercepts Graphing Linear Equations Using Stone Intercepts	
	Graphing Linear Equations Using Slope-Intercept Negative Slope	
	Regative Slope Desitive Slope	
73	Granhing Linear Inequalities of Two Variables	
7.5	Graphing an Inequality with One Variable on a Number Line	
	Graphing an Inequality with Two Variables on a Coordinate Plane	
	Boundary Line	
	Test Point	
	Conclusion	
7.4	Solving Consumer/Business Problems Using Linear Equations and Inequalities of Two Variables	Applications
	Concession Stand Application Problem	
	Football Tickets Application Problem	
	DJ Service Application Problem	
	School Dance Application Problem	







	Conclusion
Module 8	Writing Linear Equations of Two Variables
8.1	Finding Slope
	Slope of a Line
	Comparing Slopes of Lines
	Negative Slopes
	Opposite Slopes
	Discovering the Slope Formula
	Slope Formula
	Horizontal Lines
	Vertical Lines
	Parallel Lines
	Perpendicular Lines
	Conclusion
8.2	Writing Equations of Lines, Given the Slope and y-Intercept
	Equations and Lines
	Slope-Intercept Form
	Graphs and Slope-Intercept Form
	Determining Slope and y-intercept
	Writing Equations
	Parallel and Perpendicular Lines
	Reciprocals
	Conclusion
8.3	Writing Equations of Lines, Given a Point and the Slope or Two Points
	Defining Point-Slope Form
	Using Point-Slope Form
	Application Problem
	Parallel and Percendicular Lines
	Finding the Equation
	Conclusion
8.4	Solving Linear Equations in Two Variables When Parameters Are Changed
-	Parameters
	Using Parameters to Determine an Equation
	Changing the Parameters m and b
	Perpendicular Lines
	Linear Equations
	Converting from Standard Form to Slope-Intercept Form
	Conclusion
Module 9	Using Functions
9.1	Defining Relations and Functions
	Introduction to Function Machine
	Relations
	Domain and Range of a Relation
	Mapping Diagram
	• Table
	Graph of a Relation
	Set-Builder Notation
	Ways to Represent a Relation
	• Function
	Constant Function
	Nonlinear Function
	Function Machine
0.2	Conclusion Evaluating Eulertaine
5.2	
	Functions Domain and Pango
	Dumain and Kange Euroption Notation
	Function Notation Function
	• Evaluating a Function







	Functions on the Coordinate Plane	
	Conclusion	
9.3	Writing Functions from Patterns	
	Input-Output Table Writing a Expection from a Dettorn	
	Writing a Function from a Pattern Application Droblem Link	
	Application Problem - Job Sectionality	
	 Slope Eurotian Manning and Seatter plate 	
	Function Mapping and Scatter plots Conclusion	
9.4	Conclusion Graphing Eulections	
5.4	Definition of Linear Function	
	Graphing the Linear Function	
	Graphing the Constant Function	
	Absolute Value Function	
	Absolute Value Function Family	
	Translating Parent Graph	
	Graphing Piecewise Functions	
	Conclusion	
9.5	Solving Problems Using Functions	Applications
	Real-World Application	
	Formulas as Functions	
	Real-World Application #2	
	Mowing Service	
	Pizza Sharing Function	
	Health-Related Function	
	Conclusion	
9.6	Evaluating Composite Functions	
	Sale Price Function	
	 Defining Composition of Two Functions 	
	Evaluating	
	• Example	
	 Real-World Application - Finding the Original Price 	
	Determining Inverses	
	Conclusion	
Module 10	Solving Systems of Linear Equations and Inequalities	
10.1	Solving Systems of Linear Equations by Graphing	Calculator Exercises
	 System of Linear Equations 	
	 Determine Whether an Ordered Pair is a Solution 	
	 Solving Systems of Linear Equations by Graphing 	
	 Consistent, Inconsistent, Dependent, or Independent 	
	Conclusion	
10.2	Solving Systems of Linear Equations by Elimination	
	 Solution to a System of Equations 	
	 Elimination by Addition of a System 	
	 Elimination by Multiplication of One Equation in a System 	
	 Elimination by Multiplication of Both Equations 	
	 Overview of Elimination Method 	
	 Systems With No Solution 	
	 Systems With Infinitely Many Solutions 	
	Conclusion	
10.3	Solving Systems of Linear Equations by Substitution	
	 Methods of Solving Systems of Linear Equations 	
	 Solving a System of Linear Equations Using the Substitution Method 	
	Checking a Solution to a System of Linear Equations	
	 Solving a System of Linear Equations of Two Variables 	
	Solving a System of linear Equations with Infinitely Many Solutions by Substitution	
	 Solving a System of linear Equations with No Solution by Substitution 	
l	Conclusion	
10.4	Solving Systems of Linear Inequalities by Graphing	







	 Solving Linear Inequalities of Two Variables 	
	 Graphing a System of Linear Inequalities of Two Variables 	
	 Systems of Linear Inequalities Whose Graphs Have Horizontal and Vertice 	ertical Boundaries
	 Graphing a System of Three Linear Inequalities 	
	 Systems of Linear Inequalities Whose Graphs Have Parallel Boundari 	es
	Conclusion	
10.5	Solving Problems Using Systems of Linear Equations and Inequalities	Applications
	Money Saving Problem - No Interest	
	Problem-Solving Tips	
	 Money Saving Problem - with Interest 	
	Rate/Time/Distance Problem	
	Rate/Time/Distance Froblem Relygen Dimension Broblem	
	Polygon Dimension Problem Mixture Droblem	
	Initial Floblem Morked/Selencineguelity Droblem	
	Hours worked/Salary inequality Problem	
	Mixture inequality Problem	
U. K. D.	Conclusion	
Unit D	Polynomials and Quadratic Equations	
Module 11	Simplifying Algebraic Expressions with Polynomials	
11.1	Applying Rules of Exponents	
	Multiplying Powers with Like Bases	
	Dividing Powers with Like Bases	
	Power-of-a-Power Rule	
	Power-of-a-Product Rule	
	 Power-of-a-Quotient Rule 	
	Conclusion	
11.2	Using Scientific Notation	Calculator Exercises
	 Understanding Scientific Notation 	
	 Converting a Number from Scientific Notation to Standard Form 	
	 Converting a Number from Standard Form to Scientific Notation 	
	 Calculating Using Scientific Notation 	
	Conclusion	
11.3	Adding and Subtracting Polynomials	Manipulatives – Algebra Tiles
	 Understanding Polynomials 	
	Subtracting Polynomials	
	Conclusion	
11.4	Multiplying Monomials and Binomials	Manipulatives – Algebra Tiles
	Multiplying Monomials	
	Multiplying a Binomial by a Monomial	
	 Multiplying a Binomial by a Binomial 	
	Conclusion	
11.5	Multiplying Polynomials	
	Special Products	
	Multiplying General Polynomials	
	Conclusion	
11.6	Dividing Polynomials by Monomials	
11.0	Dividing Monomials by Monomials	
	 Dividing Nonomials by Monomials Dividing Polynomials by Monomials 	
	Conclusion	
117	Dividing Polynomials Lleing Long Division	
11.7	Dividing Polynomials Using Long Division	
	Conclusion	
Medule 42	Conclusion Simplifying Algebraic Expressions by Eastering Belynemials	
	Simplifying Algebraic Expressions by Factoring Polynomials	
12.1	Factoring by Removing the Greatest Common Factor	
	Greatest Common Monomial Factor	
	Factoring Polynomials Containing More Than One Variable	
10.0	Conclusion	
12.2	Factoring by Grouping	
	Common Binomial Factors	
	 Factoring by Grouping 	





	Conclusion	
12.3	Factoring the Difference of Two Squares	Manipulatives – Algebra Tiles
	 How to Factor the Difference of Two Squares 	
	 Recognizing Perfect Squares 	
	 Factoring the Difference of Two Squares 	
	 Factoring the Difference of Two Squares with a Leading Coefficient C 	other Than One
	 Using the Difference of Squares Rule Twice 	
	Conclusion	
12.4	Factoring x^2 + b x + c	Manipulatives – Algebra Tiles
	 Factoring Trinomials of the Form x² + bx + c, b>0, c>0 	
	 Factoring x² + bx + c, b<o and="" c<o<="" li="" or=""> </o>	
	• Conclusion	
12.5	Factoring $ax^2 + bx + c$	Manipulatives – Algebra Tiles
	• Factoring $ax^2 + bx + c$; Guess and Check	
	 Factoring ax² + bx + c; Factoring by Grouping 	
10.0	Conclusion	
12.6	Factoring Using Several Methods	
	Review of Factoring Methods	
	Factoring Using Several Methods Conclusion	
107	Conclusion Dividing Polynomials Using Eactoring	Manipulativos Algobra Tilos
12.7	Dividing Polynomials Using Factoring Dividing Polynomials by Eactoring: Eactoring Numerator Only	Maripulatives – Algebra Tiles
	 Dividing Polynomials by Factoring, Factoring Numerator Only Dividing Polynomials by Using Factoring: Eactoring Numerator and D 	enominator
	Conclusion	enominator
Module 13	Solving Quadratic Equations of One Variable	
13.1	Defining Quadratic Equations of One Variable	Manipulatives – Algebra Tiles
	Identifying Quadratic Equations	
	Conclusion	
13.2	Solving Quadratic Equations by Evaluating Square Roots	Calculator Exercises
	 Solving Equations of the Form ax² = k 	
	 Solving Equations of the Form ax² - b = k 	
	 Solving Quadratic Equations of the Form a(x + b)² = k 	
	 Solving Quadratic Equations of the Form a(x + b)² + c = k 	
	Conclusion	
13.3	Solving Quadratic Equations by Factoring	Calculator Exercises
	 Solving Quadratic Equations by Factoring 	
	Conclusion	
13.4	Solving Quadratic Equations by Completing the Square	Calculator Exercises
	 Completing the Square and Factoring Perfect Square Trinomials 	
	 Solving Quadratic Equations by Completing the Square 	
	Conclusion	
13.5	Solving Quadratic Equations by the Quadratic Formula	Calculator Exercises
	I he Quadratic Formula	
	Using the Quadratic Formula	
12.6	Conclusion Solving Broblems Light Quadratic Equations of One Variable	Applications
13.0	Destangular Area Applications	Applications
	Vortical Metion Applications	
	Conclusion	
Module 14	Graphing Quadratic Relations	
14.1	Graphing Simple Quadratic Relations	Calculator Exercises
	Defining Parabola	
	• Graphing Relations of the Form $y=ax^2 + bx + c$	
	Conclusion	
14.2	Graphing Quadratic Relations by Analysis	Calculator Exercises
	• Graphing $y = ax^2$	
	• Review of Graphing $y = ax^2$	
	• Graphing Equations of the Form $y = x^2 + k$	
	• Graphing Equations of the Form $y = a(x - h)^2 + k$	







 Vertical Motion Application Sports Applications Conclusion Unit E Rational and Radical Equations Module 15 Simplifying Rational Expressions 15.1 Finding Restricted Values of Rational Expressions Rational Expression Restrictions Degree 1 Rational Expressions with More Than 1 Restricted Value Conclusion 15.2 Simplifying Rational Expressions Simplifying Rational Expressions Simplifying Rational Expressions Containing Trinomials 	
Unit E Rational and Radical Equations Module 15 Simplifying Rational Expressions 15.1 Finding Restricted Values of Rational Expressions • Rational Expression Restrictions Degree 1 • Rational Expressions with More Than 1 Restricted Value • Conclusion • Conclusion 15.2 Simplifying Rational Expressions • Simplifying Rational Expressions • Simplifying Rational Expressions • Simplifying Rational Expressions • Simplifying Rational Expressions • Negative One Technique • Simplifying Rational Expressions Containing Trinomials	
Module 15 Simplifying Rational Expressions 15.1 Finding Restricted Values of Rational Expressions 15.1 Rational Expression Restrictions Degree 1 • Rational Expressions with More Than 1 Restricted Value • Conclusion 15.2 Simplifying Rational Expressions • Simplifying Rational Expressions • Negative One Technique • Simplifying Rational Expressions Containing Trinomials	
 15.1 Finding Restricted Values of Rational Expressions Rational Expression Restrictions Degree 1 Rational Expressions with More Than 1 Restricted Value Conclusion 15.2 Simplifying Rational Expressions Simplifying Rational Expressions Negative One Technique Simplifying Rational Expressions Containing Trinomials 	
 Rational Expression Restrictions Degree 1 Rational Expressions with More Than 1 Restricted Value Conclusion 15.2 Simplifying Rational Expressions Simplifying Rational Expressions Negative One Technique Simplifying Rational Expressions Containing Trinomials 	
 Rational Expressions with More Than 1 Restricted Value Conclusion 15.2 Simplifying Rational Expressions Simplifying Rational Expressions Negative One Technique Simplifying Rational Expressions Containing Trinomials 	
Conclusion Simplifying Rational Expressions Simplifying Rational Expressions Negative One Technique Simplifying Rational Expressions Containing Trinomials	
 15.2 Simplifying Rational Expressions Simplifying Rational Expressions Negative One Technique Simplifying Rational Expressions Containing Trinomials 	
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 Simplifying Rational Expressions Containing Trinomials 	
Conclusion	
15.3 Multiplying and Dividing Rational Expressions	
Multiplying Rational Expressions with Monomials	
Multiplying Rational Expressions with Binomials and Trinomials	
Dividing Rational Expressions	
Conclusion	
15.4 Adding and Subtracting Rational Expressions	
Adding and Subtracting Rational Expressions with Like Denominators	
Conclusion	
Module 16 Solving Pational Equations	
16.1 Solving Rational Equations Challen	ae Problems
Solving Rational Equations	gorrobionio
Conclusion	
16.2 Solving Problems Using Direct Variation Calculator Exercises,	Applications
Direct Variation	11
 Applications of Direct Variation 	
Conclusion	
16.3 Solving Problems Using Inverse Variation Calculator Exercises,	Applications
Inverse Variation	
 Applications of Inverse Variation 	
Conclusion	
16.4 Solving Various Types of Problems Using Rational Equations	Applications
Solving Work Problems	
Solving Uniform Motion Problems	
Conclusion	
Module 17 Simplifying Radical Expressions	
17.1 Simplifying Radicals	
Square Roots	
Product Property of Square Roots	
Square Roots and Negatives	
Cube Roots Draduet Breneriu of Cube Beste	
Product Property of Cube Roots Protections	
Conclusion	
Adding and Subtracting Kalicals	
Simplify Before Adding and Subtracting Padicals	
Adding and Subtracting Radicals with Variables	
Conclusion	
17.3 Multiplying Radicals	
Monomial Times Monomial	
Monomial Times Binomial	
Binomial Times Binomial	







	Conclusion	
17.4	Dividing Radicals	
	 Quotient Property of Square Roots 	
	 Rationalizing the Denominator 	
	Conclusion	
Module 18	Solving Radical Equations	
18.1	Solving One-Step Radical Equations	
	 Solving Radical Equations of the form sqrt x = a, a <u>></u> 0 	
	 Solving Radical Equations of the Form – sqrt x = a, a< 0 	
	 Solving Radical Equations Containing Negative Signs 	
	 Solving Cube Root and 4th Root Equations 	
	Conclusion	
18.2	Solving Multi-Step Radical Equations	
	 Solving Two-Step Radical Equations 	
	 Solving Multi-Step Radical Equations 	
	Conclusion	
18.3	Solving Problems Using Radical Equations	Calculator Exercises, Applications
	Length of a Skid Mark	
	Distance to Horizon	
	 Speed of Sound 	
	 Pythagorean Theorem Application 	
	Conclusion	
18.4	Solving Problems Using the Distance and Midpoint Formulas	Manipulatives –Geoboards, Applications
-	Pythagorean Theorem	
	Distance on a Number Line	
	Distance Formula	
	Using the Distance Formula to Solve Problems	
	Using the Midpoint Formula to Solve Problems	
	The Midpoint Formula	
Unit F	Data Analysis Probability Statistics	
Module 19	Analyzing Data and Statistics	
19.1	Finding Mean, Median, and Mode	Manipulatives – Beans, Applications
	Calculating Mean, Median, and Mode	······································
	Stem-and-I eaf Plot	
	Conclusion	
19.2	Interpreting Graphs of Data	Applications
	• Line Graphs	
	Bar Graphs	
	Circle Graphs	
	Conclusion	
19.3	Analyzing and Describing Graphs	Applications
10.0	Stem-and-I eaf Plot and Five-Number Summary	Applicatione
	Making Comparisons Lising Box-and-Whisker Plots	
	Histograms	
194	Finding a Line of Best Fit Manipulatives – Geol	boards Calculator Exercises Applications
10.4	Interpret Points on a Scatter Plot	
	Writing Equations for Lines of Best Fit	
	Conclusion	
10.5	Solving Statistics Problems	Applications
19.0	Deviation from the Mean	Applications
	Moon Absolute Deviction	
	Medit Absolute Deviation Deviation from the Mean on a Measure of Dispersion	
	Deviation from the Mean as a Measure of Dispersion Canclusien	
Modulo 20	Conclusion Solving Problems Using Probability Statistics And Discrete Met	h
20.1	Finding Permutations and Combinations	Calculator Exercises Applications
20.1	Fundamental Counting Principle and Easterial Pula	
	Fundamental Counting FillCiple and Factorial Rule Easterial	







	Combinations	
	Conclusion	
20.2	Solving Basic Probability Problems	Applications
	 Probability of an Event 	
	 Experimental Probability 	
	Theoretical Probability	
	Complementary Events	
	Conclusion	
20.3	Solving Advanced Probability Problems	Applications
	Independent Events	
	Dependent Events	
	Conclusion	
20.4	Solving Discrete Mathematics Problems	Applications
	Traversable Paths	
	 Equivalent Graphs 	
	Conclusion	