

#### **Chapter 1 Rational Number Operations**

Lesson	Topic	IAS
	A) Adding One-Digit Integers	_
1-1 Adding and	B) Subtracting One-Digit Integers	- 8.C.1
Subtracting Integers	C) Adding Multi-Digit Integers	6.C.1 _
	D) Subtracting Multi-Digit Integers	
1-2 Multiplying and	A) Multiplying Integers	- 0.01
Dividing Integers	B) Dividing Integers	8.C.1
1-3 Adding and Subtracting Fractions	A) Using Integer Rules to Add and Subtract Fractions with Common Denominators	0.64
	B) Using Integer Rules to Add and Subtract Fractions with Different Denominators	- 8.C.1
	A) Using Integer Rules to Multiply Fractions	_
1-4 Multiplying and Dividing Fractions	B) Using Integer Rules to Divide Fractions	8.C.1
	C) Complex Fractions	
1-5 Order of Operations	A) Order of Operations with Integers	9.6.1
	B) Order of Operations with Rational Numbers	- 8.C.1



#### Chapter 2 Solving Equations and Inequalities

A) Parts of Variable Expressions  B) Like Terms C) Multiplying Monomials without Exponent Properties D) Distributive Property A) Solutions of One-Variable Equations B) Bar Models to Solve One- and Two-Step Equations C) Solving One-Step Equations D) Solving Two-Step Equations A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property C) Solving Multi-Step Equations D) Solving Equations with Variables on Both Sides A) Solving Equations with Variables on Both Sides A) Solving Equations with Grouping Symbols in the Numerator B) Solving Equations with Fractions C) Solving Equations with Decimals A) Using Bar Models to Solve Equations or Many Solutions With Zero, One, or Many Solutions B) Identifying Solutions of Equations with Zero, One, or Many Solutions B) Identifying Solutions of Equations as Zero, One, or Many Solutions C) Solving Equations with Zero, One, or Many Solutions B) Solving Equations with Zero, One, or Many Solutions A) Solving Equations with Zero, One, or Many Solutions C) Solving Equations with Zero, One, or Many Solutions C) Solving Two-Step Inequalities B) Solving One-Step Inequalities B) Inequalities with Zero, Many, or Infinite Solutions C) Graphing Solutions of Multi-Step Inequalities	Lesson	Topic	IAS
Expressions  C) Multiplying Monomials without Exponent Properties D) Distributive Property  A) Solutions of One-Variable Equations B) Bar Models to Solve One- and Two-Step Equations C) Solving Two-Step Equations D) Solving Two-Step Equations A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property C) Solving Multi-Step Equations D) Solving Equations with Variables on Both Sides A) Solving Equations with Grouping Symbols in the Numerator B) Solving Equations with Fractions C) Solving Equations with Decimals A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions B) Identifying Solutions of Equations as Zero, One, or Many C) Solving Equations with Zero, One, or Many Solutions A) Solutions of One-Variable Inequalities B) Solving One-Step Inequalities A) Solving Multi-Step Inequalities B) Inequalities with Zero, Many, or Infinite Solutions B) Inequalities B) Inequalities with Zero, Many, or Infinite Solutions B) AF.1	2-1 Simplifying	A) Parts of Variable Expressions	
C) Multiplying Monomials without Exponent Properties  D) Distributive Property  A) Solutions of One-Variable Equations B) Bar Models to Solve One- and Two-Step Equations C) Solving One-Step Equations D) Solving Two-Step Equations A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property C) Solving Multi-Step Equations D) Solving Equations with Variables on Both Sides A) Solving Equations with Variables on Both Sides A) Solving Equations with Fractions C) Solving Equations with Fractions C) Solving Equations with Fractions C) Solving Equations with Decimals A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions B) Identifying Solutions of Equations with Zero, One, or Many Solutions C) Solving Equations with Zero, One, or Many Solutions B) Identifying Solutions of Equations as Zero, One, or Many C) Solving Equations with Zero, One, or Many Solutions A) Solutions of One-Variable Inequalities B) Solving One-Step Inequalities A) Solving Multi-Step Inequalities B) Inequalities with Zero, Many, or Infinite Solutions B) Inequalities B) Inequalities with Zero, Many, or Infinite Solutions B) Inequalities B) Inequalities with Zero, Many, or Infinite Solutions		B) Like Terms	- <b>7</b> AE 1
2-2 One- and Two-Step Equations B) Bar Models to Solve One- and Two-Step Equations C) Solving One-Step Equations D) Solving Two-Step Equations A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property C) Solving Multi-Step Equations D) Solving Equations with Variables on Both Sides A) Solving Equations with Grouping Symbols in the Numerator B) Solving Equations with Fractions C) Solving Equations with Decimals A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions C) Solving Equations with Decimals A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions B) Identifying Solutions of Equations as Zero, One, or Many Solutions C) Solving Equations with Zero, One, or Many Solutions A) Solutions of One-Variable Inequalities B) Solving One-Step Inequalities A) Solving Multi-Step Inequalities B) Inequalities with Zero, Many, or Infinite Solutions 8.AF.1	Expressions	C) Multiplying Monomials without Exponent Properties	7.Ar.1 _
B) Bar Models to Solve One- and Two-Step Equations   C) Solving One-Step Equations   D) Solving Two-Step Equations   D) Solving Bar Models to Solve Multi-Step Equations with Variables on Both Sides   B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property   C) Solving Multi-Step Equations   D) Solving Equations with Variables on Both Sides   D) Solving Equations with Grouping Symbols in the Numerator   D) Solving Equations with Fractions   D) Solving Equations with Fractions   C) Solving Equations with Decimals   D) Using Equations with D)		D) Distributive Property	
Equations  C) Solving One-Step Equations  D) Solving Two-Step Equations  A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides  B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property  C) Solving Multi-Step Equations  D) Solving Equations with Variables on Both Sides  A) Solving Equations with Grouping Symbols in the Numerator  B) Solving Equations with Fractions  C) Solving Equations with Decimals  A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions  With Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  A) Solving Equations with Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  A) Solving One-Step Inequalities  B) Solving Multi-Step Inequalities  B) Inequalities with Zero, Many, or Infinite Solutions  8.AF.1		A) Solutions of One-Variable Equations	
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Variables on Both Sides  B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property  C) Solving Multi-Step Equations  D) Solving Equations with Variables on Both Sides  A) Solving Equations with Grouping Symbols in the Numerator  B) Solving Equations with Fractions  C) Solving Equations with Decimals  A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions  A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  A) Solutions of One-Variable Inequalities  B) Solving One-Step Inequalities  C) Solving Two-Step Inequalities  A) Solving Multi-Step Inequalities  B) Inequalities with Zero, Many, or Infinite Solutions  8.AF.1		D) Solving Two-Step Equations	
2-3 Multi-Step Equations  the Distributive Property  C) Solving Multi-Step Equations  D) Solving Equations with Variables on Both Sides  A) Solving Equations with Grouping Symbols in the Numerator  B) Solving Equations with Fractions  C) Solving Equations with Decimals  A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many C) Solving Equations with Zero, One, or Many Solutions  A) Solutions of One-Variable Inequalities  B) Solving One-Step Inequalities  C) Solving Two-Step Inequalities  A) Solving Multi-Step Inequalities  B) Inequalities with Zero, Many, or Infinite Solutions  8.AF.1			
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Rational Numbers  B) Solving Equations with Fractions  C) Solving Equations with Decimals  A) Using Bar Models to Solve Equations with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many  C) Solving Equations with Zero, One, or Many Solutions  C) Solving Equations with Zero, One, or Many Solutions  A) Solutions of One-Variable Inequalities  B) Solving One-Step Inequalities  C) Solving Two-Step Inequalities  A) Solving Multi-Step Inequalities  A) Solving Multi-Step Inequalities  B) Inequalities with Zero, Many, or Infinite Solutions  8.AF.1  8.AF.1	2-4 Equations with	, , ,	8.AF.1
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with Zero, One, or Many Solutions  B) Identifying Solutions of Equations as Zero, One, or Many  C) Solving Equations with Zero, One, or Many Solutions  A) Solutions of One-Variable Inequalities  B) Solving One-Step Inequalities  C) Solving Two-Step Inequalities  A) Solving Multi-Step Inequalities  A) Solving Multi-Step Inequalities  B) Inequalities with Zero, Many, or Infinite Solutions  8.AF.1  8.AF.1	2-5 Multi-Step Equations		
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		B) Inequalities with Zero, Many, or Infinite Solutions	8.AF.1
	mequanties	C) Graphing Solutions of Multi-Step Inequalities	_



#### Chapter 3 Relations and Linear Functions

Lesson	Торіс	IAS
2.4 Immut and Outmut	A) Representing Relations in Different Forms	8.AF.3
3-1 Input and Output	B) Input and Output	6.AF.3
	A) Independent and Dependent Variables	
3-2 Relations and Functions	B) Domain and Range	8.AF.3, 8.AF.7
	C) Relations and Functions	
2.2 Describing Functions	A) Using Graphs to Describe Functions	0 1 1 0 1 7
3-3 Describing Functions	B) Using Tables to Describe Functions	8.AF.4, 8.AF.7
	A) Graphs of Linear Functions	
	B) Using Linear Functions to Complete Tables	
3-4 Graphs of Linear Functions	C) Graphing Linear Functions	8.AF.3, 8.AF.5
Tarretions	D) Solutions of Linear Functions	
	E) Identifying Intercepts	
	A) Writing Rules from Tables	
3-5 Rules for Linear Equations	B) Converting Between Linear Equations and Rules	- 8.AF.3, 8.AF.5, - 8.AF.6
	C) Writing Linear Equations from Tables	- 0.7 ti .0
3-6 Direct Variation	A) Constant of Variation	
	B) Equations of Direct Variation	0 45 2 0 45 6
	C) Graphs of Direct Variation	8.AF.3, 8.AF.6
	D) Direct Variation to Determine Missing Value	



#### **Chapter 4 Linear Functions and Systems**

Lesson	Торіс	IAS
4-1 Start Value and Rate of Change	A) Units and Rate of Change	
	B) Rate of Change Equation	8.AF.6
or change	C) Finding Rate of Change	-
	A) Classifying Slopes	
4-2 Slope Formula	B) Slope as Rise Over Run	8.AF.6
	C) Slope of a Line Between Two Points	
	A) Understanding Equations in Slope-Intercept Form	_
4.2 Claus Juhannat Farms	B) Identifying Slopes and y-Intercepts from Equations in Slope-Intercept Form	8.AF.5, 8.AF.6,
4-3 Slope-Intercept Form	C) Using Slopes and y-Intercepts to Write Equations in Slope-Intercept Form	8.AF.7
	D) Converting Equations to Slope-Intercept Form	
	A) Using Graphs to Write Equations in Slope-Intercept Form	
	B) Using Slopes and y-Intercepts to Graph Linear Functions	
4-4 Writing and Graphing Equations in Slope-Intercept Form	C) Using Points and Slopes to Write Equations in Slope- Intercept Form	8.AF.5, 8.AF.6, 8.AF.7
Slope intercept roini	D) Using Two Points to Write Equations in Slope- Intercept Form	
	E) Graphing Functions by Converting to Slope-Intercept Form	-
	A) Graphs of Systems of Equations	
4-5 Solutions of Systems	B) Solutions of Systems of Linear Equations	- - 8.AF.8
of Equations	C) Graphs of Systems of Equations and the Number of Solutions	0.AI.0
4-6 Graphing to Solve Systems of Equations	A) Graphing Systems of Linear Equations	0.45.0
	B) Graphing to Solve Systems of Linear Equations	8.AF.8
4-7 Substitution to Solve Systems of Equations	A) Substitution to Solve Systems of Equations that Are Solved for the Same Variable	ALCEL 2
	B) Substitution to Solve Systems of Equations that are Solved for Different Variables	AI.SEI.2



#### **Chapter 5 Exponent Properties**

Lesson	Topic	IAS
5-1 Exponents	A) Powers with Natural Exponents	8.NS.3
5.21	A) Expressions to the Zero Power	O NC 2
5-2 Integer Exponents	B) Expressions with Negative Exponents	- 8.NS.3
5-3 Product of Powers	A) Using the Product of Powers Property to Multiply Expressions with a Single Base	O NIC 2
Property	B) Using the Product of Powers Property to Multiply Expressions with Multiple Bases	- 8.NS.3
5-4 Quotient of Powers	A) Using the Quotient of Powers Property to Simplify Expressions with a Single Base	O.N.C.2
Property	B) Using the Quotient of Powers Property to Simplify Expressions with Multiple Bases	- 8.NS.3
	A) GCF of Expressions with Variables	
5-5 Products and Quotients of Powers to	B) Simplifying Fractions of that Contain Variables	8.NS.3
Simplify Expressions	C) Multiplying and Dividing Expressions that Contain Variables	
5-6 Power of a Power	A) Expanding Expressions to Show the Power of a Power Property	8.NS.3
Property	B) Simplifying Expressions with the Power of a Power Property	
5-7 Power of a Product and Quotient Properties	A) Expanding Expressions to Show the Power of a Product Property	
	B) Simplifying Expressions with the Power of a Product Property	- 8.NS.3
	C) Expanding Expressions to Show the Power of a Quotient Property	O.IV.).
	D) Simplifying Expressions with the Power of a Quotient Property	



#### **Chapter 6 Rational Numbers**

Lesson	Topic	IAS
6-1 Scientific Notation and Standard Form	A) Defining Scientific Notation	
	B) Writing Scientific Notation in Standard Form	8.C.2
ana standara i omi	C) Writing Numbers in Scientific Notation	
6-2 Operations with	A) Adding and Subtracting Numbers in Scientific Notation	
Scientific Notation	B) Multiplying Numbers in Scientific Notation	8.C.2
	C) Dividing Numbers in Scientific Notation	
	A) Repeating Decimals	_
6-3 Repeating Decimals	B) Subtracting Repeating Decimals	8.NS.1, 8.NS.2
and Fractions	C) Multiplying Repeating Decimals by Powers of Ten	
	D) Writing Repeating Decimals as Fractions	
	A) Perfect Square Numbers	_
6-4 Square Roots	B) Square Roots of Perfect Squares	8.NS.4
	C) Finding the Integers a Square Root Lies Between	
6-5 Cube Roots and Order of Operations	A) Cubing Rational Numbers	
	B) Perfect Cubes	_
	C) Cube Roots of Perfect Cubes	8.C.1
	D) Square or Cube Roots of Squares and Cubes	_
	E) Square Roots and the Order of Operations	



#### Chapter 7 Number Sets and the Pythagorean Theorem

Lesson	Topic	IAS
	A) Rational and Irrational Numbers	
7-1 Rational and Irrational Numbers	B) Ordering Real Numbers	8.NS.1, 8.NS.2
mational manuscrs	C) Approximating Square Roots	
7-2 Solving Equations with Squared Variables	A) Solving Quadratic Equations with Square Roots	8.NS.4
	A) Right Triangles	_
7-3 Pythagorean	B) Writing the Pythagorean Theorem	- 8.GM.7, 8.GM.8
Theorem	C) Using the Pythagorean Theorem to Find Side Lengths	6.GIVI.7, 6.GIVI.6
	D) Using the Inverse of the Pythagorean Theorem	
7-4 Distance Between Points	A) Vertical and Horizontal Distance on the Coordinate Plane	
	B) Using the Pythagorean Theorem to Find Distance Between Points	8.GM.8, 8.GM.9
	C) The Distance Formula	_



### Chapter 8 Angles and Triangles

Lesson	Topic	IAS
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8-1 Parallel Lines and Angle Relationships	B) Identifying Corresponding, Alternate Exterior, and Alternate Interior Angles	G.PL.1.b
	C) Parallel Lines and Angle Relationships and Measures	
O. 2. Angles of Triongles	A) Sum of the Measure of Interior Angles of a Triangle	C T 1 o
8-2 Angles of Triangles	B) Finding a Missing Angle Measure in a Triangle	G.T.1.a
9.2 Classifying Triangles	A) Classifying Triangle by Their Angles	F.C.2
8-3 Classifying Triangles	B) Classifying Triangles by Their Sides	5.G.2
8-4 Angle and Side	A) Using Angle Measures to Order the Side Lengths of Triangles	G.T.6.b
Relationships in a Triangle	B) Using Side Lengths to Order the Angles Measures of Triangles	
8-5 Interior and Exterior	A) Interior and Exterior Angles of Triangles	G.QP.3
Angles of Triangles	B) Exterior Angles of a Triangle and Their Remote Interior Angles	
8-6 Angles of Polygons	A) Diagonals of Polygons	G.QP.3
	B) Concave and Convex Polygons	
	C) Sum of the Measure of Interior Angles of a Convex Polygon	



### Chapter 9 Transformations

Lesson	Topic	IAS
9-1 Introduction to	A) Transformation Statements	9 CM 2 9 CM 6
Transformations	B) Describing Translations	8.GM.3, 8.GM.6
9-2 Translations	A) Writing Translation Functions	8.GM.3, 8.GM.4,
9-2 ITALISIALIONS	B) Translations with Translation Functions	8.GM.6
	A) Naming the Vertices of a Reflected Preimage	
	B) Lines of Reflection	_
9-3 Reflections	C) Identifying Images	8.GM.3, 8.GM.4,
5-5 Reflections	D) Reflecting in Horizontal and Vertical Lines	8.GM.5, 8.GM.6
	E) Reflecting in the x-axis and y-axis	
	F) Reflecting in y=x and y=-x	
	A) Lines of Symmetry	
9-4 Rotational Symmetry	B) Relationship Between Lines of Symmetry and Rotational Symmetry	8.GM.3, 8.GM.6
O C Detetions	A) Rotation about the Center of a Figure	8.GM.3, 8.GM.4,
9-5 Rotations	B) Rotation about the Origin	8.GM.5, 8.GM.6
9-6 Dilations	A) Types of Dilations	
	B) Scale Factor	
	C) Dilation about a Point	8.GM.5, 8.GM.6
	D) Dilation about the Origin	

#### Chapter 10 Volume

Lesson	Topic	IAS
10-1 Volume of Cylinders and Prisms	A) Volumes of Prisms	8.GM.2
	B) Volumes of Cylinders	
10-2 Volume of Pyramids and Cones	A) Volumes of Pyramids	0.614.2
	B) Volumes of Cones	8.GM.2
10-3 Volume of Spheres	A) Volumes of Spheres	8.GM.2



#### **Chapter 11 Scatter Plots**

Lesson	Topic	IAS
11-1 Reading Scatter Plots	A) Scatter Plots	
	B) Meanings of Points in Scatter Plots	8.DSP.1
	C) Patterns in Scatter Plots	
11-2 Lines of Fit	A) Scatter Plots of Linear and Nonlinear Data	
	B) Lines of Fit	8.DSP.1, 8.DSP.2, 8.DSP.3
	C) The Meaning of Numbers in Lines of Fit	0.001.0
11-3 Predicting with Lines of Fit	A) Making Predictions with Lines of Fit	8.DSP.1, 8.DSP.2,
	B) Observed and Predicted Values	8.DSP.3

#### **Chapter 12 Frequency Tables**

Lesson	Topic	IAS
	A) Parts of Two-Way Tables	AI.DS.5
12-1 Two-Way Tables	B) Reading Two-Way Tables	
	C) Finding Missing Joint and Marginal Frequencies	
	A) Identifying Relative Frequency Tables	
12-2 Relative Frequency	B) Calculating Relative Frequencies	AI.DS.5
Tables	C) Reading Relative Frequency Tables	
	D) Finding Missing Relative Frequencies	
	A) Identifying Conditional Relative Frequency Tables	
12-3 Conditional	B) Calculating Conditional Relative Frequencies	_
	C) Reading Conditional Relative Frequency Tables	AI.DS.5
Frequency Tables	D) Completing and Understanding Conditional Relative Frequency Tables	