Unit Depende	ncy:
--------------	------

Activity #	Activity Name	Time	Instructiona Day
1.1	Which One Doesn't Belong: Diagrams		
1.2	Triangle Square Dance		
1.3	Frame to Frame		
2.1	A Pair of Quadrilaterals		
2.2	How Did You Make That Move?		
2.3	Card Sort: Move		
2.4	Is It a Reflection?		
3.1	Notice and Wonder: The Isometric Grid		
3.2	Transformation Information		
3.3	Some are Translations and Some Aren't		
4.1	Reflection Quick Image		
4.2	Make That Move		
4.3	A to B to C		
4.4	What Does It Take?		
5.1	Translating Coordinates		
5.2	Reflecting Points on the Coordinate Plane		
5.3	Transformations of a Segment		
5.4	Rotation or Reflection		
6.1	Finding a Center of Rotation		
6.2	Info Gap: Transformation Information		
6.3	Describing a Sequence of Transformations		

7.1	Measuring Segments	
7.2	Sides and Angles	
7.3	Which One?	
7.4	Translated Trapezoid	
8.1	Building a Quadrilateral	
8.2	Rotating a Segment	
8.3	A Pattern of Four Triangles	
8.4	Is it a rotation?	
9.1	Line Moves	
9.2	Parallel Lines	
9.3	Let's Do Some 180's	
9.4	Finding Missing Measurements	
10.1	Angles of an Isosceles Triangle	
10.2	Triangle Plus One	
10.3	Triangle Plus Two	
10.4	Triangle ONE Plus	
10.5	Identifying Side Lengths and Angle Measures	
	Mid-Unit Assessment	
11.1	Find the Right Hands	
11.2	Are They the Same?	
11.3	Area, Perimeter, and Congruence	
11.4	Mirror Images	
12.1	Translated Images	
12.2	Congruent Pairs (Part 1)	

12.3	Congruent Pairs (Part 2)	
12.4	Building Quadrilaterals	
12.5	Moving to Congruence	
13.1	Not Just the Vertices	
13.2	Congruent Ovals	
13.3	Corresponding Points in Congruent Figures	
13.4	Astonished Faces	
13.5	Explaining Congruence	
14.1	Angle Pairs	
14.2	Cutting Parallel Lines with a Transversal	
14.3	Alternate Interior Angles Are Congruent	
14.4	All The Rest	
15.1	Can You Draw It?	
15.2	Find All Three	
15.3	Tear It Up	
15.4	Missing Angle Measures	
16.1	True or False: Computational Relationships	
16.2	Angle Plus Two	
16.3	Every Triangle in the World	
16.4	Four Triangles Revisited	
16.5	Angle Sizes	
17.1	Deducing Angle Measures	
17.2	Tessellate This	
17.3	Rotate That	

Assessment	

Unit Dependency: 7.1, 8.1
---------------------------

Activity #	Activity Name	Time	Instructional Day
7.1.4.1	Three Quadrilaterals (Part 1)		
7.1.4.2	Three Quadrilaterals (Part 2)		
7.1.4.3	Scaled or Not Scaled?		
7.1.4.4	Comparing Pictures of Birds		
7.1.4.5	Corresponding Polygons		
7.1.5.1	Number Talk: Missing Factor		
7.1.5.2	Card Sort: Scaled Copies		
7.1.5.3	Scaling A Puzzle		
7.1.5.4	Missing Figure, Factor, or Copy		
7.1.5.5	Scaling a Rectangle		
1.1	Number Talk: Remembering Fraction Division		
1.2	Sorting Rectangles		
1.3	Scaled Rectangles		
1.4	What is a Dilation?		
2.1	Notice and Wonder: Concentric Circles		
2.2	A Droplet on the Surface		
2.3	Quadrilateral on a Circular Grid		
2.4	A Quadrilateral and Concentric Circles		
2.5	Dilating points on a circular grid		
3.1	Points on a Ray		
3.2	Dilation Obstacle Course		

3.3	Getting Perspective
3.4	A Single Dilation of a Triangle
4.1	Estimating a Scale Factor
4.2	Dilations on a Grid
4.3	Card Sort: Matching Dilations on a Coordinate Grid
4.4	A Dilated Image
5.1	Many Dilations of a Triangle
5.2	Info Gap: Dilations
5.3	Identifying a Dilation
6.1	Equivalent Expressions
6.2	Similarity Transformations (Part 1)
6.3	Similarity Transformations (Part 2)
6.4	Methods for Translations and Dilations
6.5	Showing Similarity
7.1	All, Some, None: Congruence and Similarity
7.2	Are They Similar?
7.3	Find Someone Similar
7.4	How Do You Know?
8.1	Equivalent Expressions
8.2	Making Pasta Angles and Triangles
8.3	Similar Figures in a Regular Pentagon
8.4	Applying Angle-Angle Similarity
9.1	Two-three-four and Four-five-six
9.2	Quotients of Sides Within Similar Triangles

9.3	Using Side Quotients to Find Side Lengths of Similar Triangles	
9.4	Similar Sides	
10.1	Equal Quotients	
10.2	Similar Triangles on the Same Line	
10.3	Multiple Lines with the Same Slope	
10.4	Different Slopes of Different Lines	
10.5	Finding Slope and Graphing Lines	
11.1	Coordinates and Lengths in the Coordinate Plane	
11.2	What We Mean by an Equation of a Line	
11.3	Writing Relationships from Slope Triangles	
11.4	Matching Relationships to Graphs	
12.1	Missing center	
12.2	Writing Relationships from Two Points	
12.3	Dilations and Slope Triangles	
12.4	Is the Point on the Line?	
13.1	Notice and Wonder: Long Shadows and Short Shadows	
13.2	Objects and Shadows	
13.3	Justifying the Relationship	
13.4	The Height of a Tall Object	
	Assessment	

Unit Dependency: 7.5, 8.2

Activity #	Activity Name	Time	Instructional Day
1.1	Notice and Wonder: Two Graphs		
1.2	Moving Through Representations		
1.3	Moving Twice as Fast		
1.4	Turtle Race		
2.1	An Unknown Situation		
2.2	Card Sort: Proportional Relationships		
2.3	Different Scales		
2.4	Different Axes		
3.1	Number Talk: Multiplication		
3.2	Representations of Proportional Relationships		
3.3	Info Gap: Proportional Relationships		
3.4	Graph the Relationship		
4.1	What's the Relationship?		
4.2	Comparing Two Different Representations		
4.3	Different Salt Mixtures		
5.1	Number Talk: Fraction Division		
5.2	Stacking Cups		
5.3	Connecting Slope to Rate of Change		
5.4	Stacking More Cups		
6.1	Growing		
6.2	Slopes, Vertical Intercepts, and Graphs		

6.3	Summer Reading	
6.4	Savings	
7.1	Estimation: Which Holds More?	
7.2	Rising Water Levels	
7.3	Calculate the Slope	
7.4	Graphing a Line	
8.1	Lines that Are Translations	
8.2	Increased Savings	
8.3	Translating a Line	
8.4	Similarities and Differences in Two Lines	
9.1	Which One Doesn't Belong: Odd Line Out	
9.2	Stand Clear of the Closing Doors, Please	
9.3	Travel Habits in July	
9.4	Payback Plan	
9.5	The Slopes of Graphs	
10.1	Number Talk: Integer Operations	
10.2	Toward a More General Slope Formula	
10.3	Making Designs	
10.4	Different Slopes	
11.1	Which One Doesn't Belong: Pairs of Lines	
11.2	All the Same	
11.3	Same Perimeter	
11.4	Line Design	
12.1	Estimate Area	

12.2	Apples and Oranges	
12.3	Solutions and Everything Else	
12.4	Identify the Points	
13.1	Coordinate Pairs	
13.2	True or False: Solutions in the Coordinate Plane	
13.3	I'll Take an X, Please	
13.4	Intercepted	
14.1	Buying Fruit	
14.2	Five Savings Accounts	
14.3	Fabulous Fish	
	Assessment	

Unit Dependency:	7	.6,	8.3
------------------	---	-----	-----

Activity #	Activity Name	Time	Instructional Day
1.1	Notice and Wonder: A Number Line		
1.2	Telling Temperatures		
1.3	Making a Puzzle		
1.4	Seeing the Puzzle		
2.1	Notice and Wonder: Hanging Socks		
2.2	Hanging Blocks		
2.3	More Hanging Blocks		
2.4	Changing Blocks		
3.1	Matching Hangers		
3.2	Matching Equation Moves		
3.3	Keeping Equality		
3.4	More Matching Moves		
4.1	Different Equations?		
4.2	Step by Step by Step by Step		
4.3	Make Your Own Steps		
4.4	Mis-Steps		
5.1	Equation Talk		
5.2	Trading Moves		
5.3	A Puzzling Puzzle		
5.4	Check It		
6.1	Equal Perimeters		
6.2	Predicting Solutions		

6.4Think Before You Step7.1Which One Doesn't Belong: Equations7.2Thinking About Solutions7.3What's the Equation?7.4Choose Your Own Solution8.1Matching Solutions8.2Thinking About Solutions Some More8.3Make Use of Structure	
7.1Which One Doesn't Belong: Equations7.2Thinking About Solutions7.3What's the Equation?7.4Choose Your Own Solution8.1Matching Solutions8.2Thinking About Solutions Some More8.3Make Use of Structure	
7.2Thinking About Solutions7.3What's the Equation?7.4Choose Your Own Solution8.1Matching Solutions8.2Thinking About Solutions Some More8.3Make Use of Structure	
7.3 What's the Equation?   7.4 Choose Your Own Solution   8.1 Matching Solutions   8.2 Thinking About Solutions Some More   8.3 Make Use of Structure	
7.4Choose Your Own Solution8.1Matching Solutions8.2Thinking About Solutions Some More8.3Make Use of Structure	
8.1 Matching Solutions   8.2 Thinking About Solutions Some More   8.3 Make Use of Structure	
8.2 Thinking About Solutions Some More   8.3 Make Use of Structure	
8.3 Make Use of Structure	
8.4 How Does She Know?	
9.1 Which Would You Choose?	
9.2 Water Tanks	
9.3 Elevators	
9.4 Printers and Ink	
10.1 Which One Doesn't Belong: Lines in the Plane	
<sup>10.2</sup> Pocket Full of Change	
<sup>10.3</sup> Making Signs	
10.4 Another Pocket Full of Change	
11.1 Notice and Wonder: Bugs Passing in the Night	
11.2 Bugs Passing in the Night, Continued	
11.3 A Close Race	
11.4 Saving Cash	
12.1 Milkshakes	
12.2 Passing on the Trail	

12.3	Stacks of Cups	
12.4	Milkshakes, Revisited	
13.1	True or False: Two Lines	
13.2	Matching Graphs to Systems	
13.3	Different Types of Systems	
13.4	Two Lines	
14.1	Algebra Talk: Solving Systems Mentally	
14.2	Challenge Yourself	
14.3	Five Does Not Equal Seven	
14.4	Solve It	
15.1	How Many Solutions? Matching	
15.2	Situations and Systems	
15.3	Info Gap: Racing and Play Tickets	
15.4	Solving Systems Practice	
15.5	Solve This	
16.1	Are We There Yet?	
16.2	Cycling, Fundraising, Working, and?	
	Assessment	

Unit Dependency: 7.7, 8.3

Activity #	Activity Name	Time	Instructional Day
1.1	Dividing by 0		
1.2	Guess My Rule		
1.3	Making Tables		
1.4	What's the Rule?		
2.1	Square Me		
2.2	You Know This, Do You Know That?		
2.3	Using Function Language		
2.4	Same Function, Different Rule?		
2.5	Wait Time		
3.1	A Square's Area		
3.2	Diagrams, Equations, and Descriptions		
3.3	Dimes and Quarters		
3.4	The Value of Some Quarters		
4.1	Notice and Wonder: Doubling Back		
4.2	Equations and Graphs of Functions		
4.3	Running around a Track		
4.4	Subway Fare Card		
5.1	Which One Doesn't Belong: Graphs		
5.2	Time and Temperature		
5.3	Garbage		
5.4	Diego's 10K Race		
6.1	Dog Run		

6.2	Which Graph is It?	
6.3	Sketching a Story about a Boy and a Bike	
6.4	Walking Home From School	
7.1	Which are the Same? Which are Different?	
7.2	Comparing Temperatures	
7.3	Comparing Volumes	
7.4	It's Not a Race	
7.5	Comparing Different Areas	
8.1	Bigger and Smaller	
8.2	Proportional Relationships Define Linear Functions	
8.3	Is it Filling Up or Draining Out?	
8.4	Which is Growing Faster?	
8.5	Beginning to See Daylight	
9.1	Candlelight	
9.2	Shadows	
9.3	Recycling	
9.4	Board Game Sales	
10.1	Notice and Wonder: Lines on Dots	
10.2	Modeling Recycling	
10.3	Dog Bath	
10.4	Distance and Speed	
10.5	Lin's Phone Charge	
	Mid-Unit Assessment	
11.1	Which One Doesn't Belong: Solids	

11.2	Height and Volume	
11.3	What Is the Shape?	
11.4	Which Cylinder?	
12.1	Two Containers	
12.2	What's Your Estimate?	
12.3	Do You Know These Figures?	
12.4	Rectangle to Round	
13.1	A Circle's Dimensions	
13.2	Circular Volumes	
13.3	A Cylinder's Dimensions	
13.4	A Cylinder's Volume	
13.5	Liquid Volume	
14.1	A Cylinder of Unknown Height	
14.2	What's the Dimension?	
14.3	Cylinders with Unknown Dimensions	
14.4	Find the Height	
15.1	Which Has a Larger Volume?	
15.2	From Cylinders to Cones	
15.3	Calculate That Cone	
15.4	Calculate Volumes of Two Figures	
16.1	Number Talk: Thirds	
16.2	An Unknown Radius	
16.3	Cones with Unknown Dimensions	
16.4	Popcorn Deals	

16.5	A Square Radius
17.1	Driving the Distance
17.2	Double the Edge
17.3	Halve the Height
17.4	Figuring Out Cone Dimensions
17.5	A Missing Radius
18.1	Tripling Statements
18.2	A Square Base
18.3	Playing with Cones
18.4	Halving Dimensions
19.1	Notice and Wonder: Two Shapes
19.2	Hemispheres in Boxes
19.3	Estimating Hemispheres
19.4	A Mirror Box
20.1	Sketch a Sphere
20.2	A Sphere in a Cylinder
20.3	Spheres in Cylinders
20.4	Volumes of Spheres
21.1	Sphere Arguments
21.2	Sphere's Radius
21.3	Info Gap: Unknown Dimensions
21.4	The Right Fit
21.5	New Four Spheres
22.1	Missing Information?

	Assessment	
22.3	A Cylinder, a Cone, and a Sphere	
22.2	Scaling Volume of a Sphere	

Unit Dependency: 7.8, 8.3

Activity #	Activity Name	Time	Instructional Day
1.1	Notice and Wonder: Messy Data		
1.2	Seeing the Data		
1.3	Tables and Their Scatter Plots		
1.4	Squashed Spheres		
2.1	Representing Data		
2.2	Gathering Data		
2.3	Scatter Plots		
2.4	Right Side Measurements		
3.1	The Giant Panda		
3.2	Weight and Fuel Efficiency		
3.3	Coat Sales		
3.4	Quarterbacks		
4.1	Predict This		
4.2	Shine Bright		
4.3	The Agony of the Feet		
4.4	A 1 Foot Foot		
5.1	Which One Doesn't Belong: Scatter Plots		
5.2	Fitting Lines		
5.3	Good Fit Bad Fit		
5.4	Practice Fitting Lines		
5.5	This is One Way to Do It		

6.1	Estimating Slope	
6.2	Describing Linear Associations	
6.3	Interpreting Slopes	
6.4	Positive or Negative?	
6.5	Trends in the Price of Used Cars	
7.1	Notice and Wonder: Nonlinear Scatter Plot	
7.2	Scatter Plot City	
7.3	Clustering	
7.4	Make Your Own Scatter Plot	
8.1	Speed vs. Step Length	
8.2	Animal Brains	
8.3	Equal Body Dimensions	
8.4	Drawing a Line	
9.1	Notice and Wonder: Bar Association	
9.2	Card Sort: Matching Representations	
9.3	Building Another Type of Two-Way Table	
9.4	Guitar and Golf	
10.1	Sports and Musical Instruments	
10.2	Sports and Music Association	
10.3	Colored Erasers	
10.4	Class Preferences	
11.1	Measuring 30 Seconds	

Unit Dependency: 6.6

Activity #	Activity Name	Time	Instructional Day
1.1	Which One Doesn't Belong: Twos		
1.2	Return of the Genie		
1.3	Broken Coin		
1.4	Exponent Check		
2.1	100, 1, or \$\frac{1}{100}\$?		
2.2	Picture a Power of 10		
2.3	Multiplying Powers of Ten		
2.4	That's a Lot of Dough, Though!		
3.1	Big Cube		
3.2	Raising Powers of 10 to Another Power		
3.3	How Do the Rules Work?		
3.4	Making a Million		
4.1	A Surprising One		
4.2	Dividing Powers of Ten		
4.3	Zero Exponent		
4.4	Making Millions		
4.5	Why Subtract?		
5.1	Number Talk: What's That Exponent?		
5.2	Negative Exponent Table		
5.3	Follow the Exponent Rules		
5.4	Negative Exponent True or False		

True or False: Comparing Expressions with Exponents		
What Happens with Zero and Negative Exponents?		
Exponent Rules with Bases Other than 10		
Spot the Mistake		
Which One Doesn't Belong: Exponents		
Exponent Rule Practice		
Inconsistent Bases		
Working with Exponents		
Same Exponent, Different Base		
Power of Products		
How Many Ways Can You Make 3,600?		
Help an Absent Student		
Thousand Million Billion Trillion		
Base-ten Representations Matching		
Using Powers of 10 to Describe Large and Small Numbers		
Better with Powers of 10		
Labeling Tick Marks on a Number Line		
Comparing Large Numbers with a Number Line		
The Speeds of Light		
Describe the Point		
Small Numbers on a Number Line		
Comparing Small Numbers on a Number Line		
Atomic Scale		
	True or False: Comparing Expressions with Exponents What Happens with Zero and Negative Exponent Rules with Bases Other than 10 Spot the Mistake Which One Doesn't Belong: Exponents Exponent Rule Practice Inconsistent Bases Working with Exponents Same Exponent, Different Base Power of Products How Many Ways Can You Make 3,600? Help an Absent Student Thousand Million Billion Trillion Base-ten Representations Matching Using Powers of 10 to Describe Large and Small Numbers Better with Powers of 10 Labeling Tick Marks on a Number Line Comparing Large Numbers with a Number Line The Speeds of Light Describe the Point Small Numbers on a Number Line Comparing Small Numbers on a Number Line	True or False: Comparing Expressions   with Exponents   What Happens with Zero and Negative   Exponents?   Exponent Rules with Bases Other than   10   Spot the Mistake   Which One Doesn't Belong: Exponents   Exponent Rule Practice   Inconsistent Bases   Working with Exponents   Same Exponent, Different Base   Power of Products   How Many Ways Can You Make 3,600?   Help an Absent Student   Thousand Million Billion Trillion   Base-ten Representations Matching   Using Powers of 10 to Describe Large and Small Numbers   Better with Powers of 10   Labeling Tick Marks on a Number Line   Comparing Large Numbers with a Number Line   The Speeds of Light   Describe the Point   Small Numbers on a Number Line   Comparing Small Numbers on a Number Line   Comparing Small Numbers on a Number Line   Comparing Small Numbers on a Number Line   Atomic Scale

11.4	Describing Very Small Numbers	
12.1	What Information Do You Need?	
12.2	Meter Sticks to the Moon	
12.3	That's a Tall Stack of Cash	
12.4	Reflecting on Using Powers of 10	
13.1	Number Talk: Multiplying by Powers of 10	
13.2	The "Science" of Scientific Notation	
13.3	Scientific Notation Matching	
13.4	Scientific Notation Check	
14.1	True or False: Equations	
14.2	Biomass	
14.3	Info Gap: Distances in the Solar System	
14.4	Professions in the United States	
14.5	Estimating with Scientific Notation	
15.1	Number Talk: Non-zero Digits	
15.2	Measuring the Planets	
15.3	A Celestial Dance	
15.4	Old McDonald's Massive Farm	
15.5	Adding with Scientific Notation	
16.1	Old Hardware, New Hardware	
16.2	A Bit More on Bytes	

Unit Dependency: 6.1

Activity #	Activity Name	Time	Instructional Day
1.1	Two Regions		
1.2	Decomposing to Find Area		
1.3	Estimating Side Lengths from Areas		
1.4	Making Squares		
1.5	It's a Square		
2.1	Notice and Wonder: Intersecting Circles		
2.2	One Square		
2.3	The Sides and Areas of Tilted Squares		
2.4	What Is the Side Length?		
3.1	Algebra Talk: Positive Solutions		
3.2	Three Squares		
3.3	Looking for a Solution		
3.4	Looking for \$\sqrt2\$		
3.5	Types of Solutions		
4.1	Notice and Wonder: Diagonals		
4.2	Squaring Lines		
4.3	Square Root of 3		
4.4	Approximating \$\sqrt{18}\$		
5.1	True or False: Squared		
5.2	Square Root Values		
5.3	Solutions on a Number Line		
5.4	Betweens		

6.1	Which One Doesn't Belong: Triangles	
6.2	A Table of Triangles	
6.3	Meet the Pythagorean Theorem	
6.4	Does a Squared Plus b Squared Equal c Squared?	
7.1	Notice and Wonder: A Square and Four Triangles	
7.2	Adding Up Areas	
7.3	Let's Take it for a Spin	
7.4	A Transformational Proof	
7.5	When is it True?	
8.1	Which One Doesn't Belong: Equations	
8.2	Which One Is the Hypotenuse?	
8.3	Find the Missing Side Lengths	
8.4	Could be the Hypotenuse, Could be a Leg	
9.1	The Hands of a Clock	
9.2	Proving the Converse	
9.3	Calculating Legs of Right Triangles	
9.4	Is It a Right Triangle?	
10.1	Closest Estimate: Square Roots	
10.2	Cutting Corners	
10.3	Internal Dimensions	
10.4	Jib Sail	
11.1	Closest Distance	
11.2	How Far Apart?	
11.3	Perimeters with Pythagoras	

11.4	Finding the Right Distance	
11.5	Lengths of Line Segments	
12.1	Ordering Squares and Cubes	
12.2	Name That Edge Length!	
12.3	Card Sort: Rooted in the Number Line	
12.4	Roots of 36	
13.1	True or False: Cubed	
13.2	Cube Root Values	
13.3	Solutions on a Number Line	
13.4	Different Types of Roots	
14.1	Notice and Wonder: Shaded Bars	
14.2	Halving the Length	
14.3	Recalculating Rational Numbers	
14.4	Zooming In On \$\frac{2}{11}\$	
14.5	An Unknown Rational Number	
15.1	Searching for Digits	
15.2	Some Numbers Are Rational	
15.3	Some Numbers Are Not Rational	
15.4	Repeating in Different Ways	
16.1	Three Figures	
16.2	A \$4:3\$ Rectangle	
16.3	The Screen Is the Same Size Or Is It?	