Students taking the class for normal credit will find their assignments listed first in each section. Honors assignments are *italicized*. Review assignments apply to normal and honors credit classes. With the exception of word problems, write the original questions, show all work, and circle your solution on a sheet of paper.

1 Real Numbers

1.1 Rational Numbers as Decimals		
EQ: How can you write repeating decimals as fractions?		
Obj: Students will be able to write repeating decimals as fractions.		
p. 12 4-19	Khan Acadomy	IXL
p. 12 4-19, Enrichment Handout	<u>Khan Academy</u>	I/AL
1.2 Understand Irrational Numbers		
EQ: How is an irrational number different from a rational number	?	
Obj: Students will be able to identify an irrational number.		
р. 18 4-19	Khan Acadomy	IXL
p. 18 4-19, Enrichment Handout	<u>Khan Academy</u>	I/AL
1.3 Compare and Order Real Numbers		
EQ: How can you compare and order rational and irrational number	bers?	
Obj: Students will be able to compare and order rational and irrat	ional numbers.	
p. 24 4-7, 10-11, 16	Khan Academy IXL	
p. 24 4-7, 10-11, 15-16, Enrichment Handout		
1.1-1.3 Review		
p. 76 1-4 and 1-2, p. 77 1-2 (Regular and Honors)		
1.4 Evaluate Square Roots and Cube Roots		
EQ: How do you evaluate cube roots and square roots?		
Obj: Students will be able to find square roots and cube roots of r	ational numbers.	
1.4 Handout then p. 30 4, 7-9, 11, 17	Khan Academy	IXL
1.4 Handout then p. 30 4, 7-15, 17	<u>Nidit Academy</u>	I/AL
1.5 Solve Equations Using Square Roots and Cube Roots		
EQ: How can you solve equations with squares and cubes?		
Obj: Students will be able to solve equations involving squares or o	cubes.	
1.5 Handout then p. 37 10-11, 14-15, 17	VI. a. A d	IVI
1.5 Handout then p. 37 10-11, 14-15, 17-19	<u>Khan Academy</u>	IXL

1.6 Use Properties of Integer Exponents		
EQ: How do properties of integer exponents help you write	equivalent expressions?	
Obj: Students will be able to use the properties of exponent	rs to write equivalent expressions.	
Video: <u>Algebra I,</u> 6.2 and 6.3		
р. 44 5-18, 26	VI an Academan	IVI
p. 44 5-24, 26	<u>Khan Academy</u>	IXL
1.7 More Properties of Integer Exponents		
EQ: What do the zero-exponent and negative exponent pro	pperties mean?	
Obj: Students will be able to write a number with a negative	e or zero exponent a different way.	
Video: <u>Algebra I</u> , 6.1		
p. 50 4-6, 9-16, 19	Khan Academy	IXL
p. 50 4-6, 9-16, 19, 20a, 21-22, Handout	Nidit Academy	IXL
1.8 Use Powers of 10 to Estimate Quantities		
EQ: When would you use a power of 10 to estimate a quan	ntity?	
Obj: Students will be able to estimate large and small quant	tities using a power of 10.	
p. 56 4, 6-8, 10-12, 14, 16-17a	Khan Academy	IXL
p. 56 4, 6-8, 10-12, 14, 16-17a	Midit / Redderny	IXL
1.6-1.8 Review	,	
p. 78 1-4, p. 79 1-4 and 1-2 (Regular and Honors)		
1.9 Understand Scientific Notation		
EQ: What is scientific notation and why is it used?		
Obj: Students will be able to use scientific notation to write	very large or very small quantities.	
Video: <u>Algebra I</u> , 7.2		
p. 62 4-8, 10-14, 16-19, 21-22	Khan Academy	IXL
p. 62 4-8, 10-14, 16-19, 21-22	NIGH Academy	IXL
1.10 Operations with Numbers in Scientific Notation		
EQ: How does using scientific notation help when computing	g with very large or very small numbers?	
Obj: Students will be able to perform operations with number	ers in scientific notation.	
Video: <u>Algebra I</u> , 7.2		
p. 72 4, 6-10, 13-14	Khan Academy	IXL

1.4-1.5 Review

Topic 1 Assessment (Regular and Honors)

2.1 Combine Like Terms to Solve Equations				
EQ: How do you solve equations that contain like terms?				
Obj: Students will be able to solve equations that have like terms on one side.				
p.	Vhan Asadamu	IVI		
p.	Khan Academy	IXL		
2.2 Solve Equations with Variables on Both Sides				
EQ: How do you use inverse operations to solve equations with various	bles on both sides?			
Obj: Students will be able to solve equations with variables on both s	ides of the equal sign.			
p.	Khan Academy	IXL		
p.	Nian Academy	IAL		
2.3 Solve Multistep Equations				
EQ: How can you use the distributive property to solve multistep equ	uations?			
Obj: Students will be able to solve multistep equations and pairs of e	equations using more than one appr	roach?		
p.	Khan Academy	IXL		
2.4 Equations with No Solutions or Infinitely Many Solutions				
EQ: Will a one-variable equation always have one solution?				
Obj: Students will be able to determine the number of solutions an equation has.				
p				
þ.	Khan Academy	IXL		
2.5 Compare Proportional Relationships				
EQ: How can you compare proportional relationships represented in	different ways?			
Obj: Students will be able to compare proportional relationships repr	esented in different ways.			
p.	Khan Acadomy	IXL		
p.	Khan Academy	IAL		
2.6 Connect Proportional Relationships and Slope				
EQ: What is slope?				
Obj: Students will be able to understand the slope of a line.				
Video: Algebra I, 3.4				
p.	Khan Academy	IXL		
p.	raidit / teaderny	I/XL		

2.7 Analyze Linear Equations $y = mx$			
EQ: How does slope relate to the equation for a proportional relationship?			
Obj: Students will be able to write equations to describe linear relationships.			
Video: Algebra I, 3.4			
p.	Khan Academy	IXL	
p.	Totally	D.C.	
2.8 Understand the y-Intercept of a Line			
EQ: What is the y-intercept and what does it indicate?			
Obj: Students will be able to find the y-intercept of a graph and explain what it means.			
p.	Khan Academy IXI		
Ρ'	Khan Academy	lXI	
p.	Khan Academy	IXL	
	Khan Academy	IXL	
p.	,	IXL	
p. 2.9 Analyze Linear Equations $y = mx + b$,	IXL	
p. 2.9 Analyze Linear Equations $y = mx + b$ EQ: What is the equation of a line for a nonproportional relationship	,	IXL	
p. 2.9 Analyze Linear Equations $y = mx + b$ EQ: What is the equation of a line for a nonproportional relationship Obj: Students will be able to derive the equation $y = mx + b$.)?		
p. 2.9 Analyze Linear Equations $y = mx + b$ E.Q.: What is the equation of a line for a nonproportional relationship Obj.: Students will be able to derive the equation $y = mx + b$. Video: Algebra I, 3.1 and 3.2	,	IXL	

3 Use Functions to Model Relationships

3.1 Understand Relationships and Functions				
EQ: When is a relation a function?				
Obj: Students will be able to tell whether a relation is a function.				
Video: <u>Algebra I</u> , 3.3				
p.	Khan Academy	IXL		
Þ.	NIGH Academy	IXL		
3.2 Connect Representations of Functions				
EQ: What are different representations of a function?				
Obj: Students will be able to identify functions by their equations, tab	ales and graphs			
	ics, und graphs.			
p.	Khan Academy	IXL		
р. 				
3.3 Compare Linear and Nonlinear Functions				
EQ: How can you compare two functions?				
Obj: Students will be able to compare linear and nonlinear functions.				
p.	Khan Academy	IXL		
p.	Nidit Academy	IXL		
3.4 Construct Functions to Model Linear Relationships				
EQ: How can you use a function to represent a linear relationship?				
Obj: Students will be able to write an equation in the form $y = mx + b$ to describe a linear function.				
p.	IZI A I	DVI		
þ.	Khan Academy	IXL		
3.5 Intervals of Increase and Decrease				
EQ: How does a qualitative graph describe the relationship between	quantities?			
Obj: Students will be able to describe the behavior of a function and write a description to go with its graph.				
p.	Khan Asadomi	IXL		
p.	Khan Academy	IXL		
3.6 Sketch Functions From Verbal Descriptions				
EQ: How does the sketch of a graph of a function help describe its b	pehavior?			
Obj: Students will be able to sketch the graph of a function that has been described verbally.				
p.				
þ.	Khan Academy	IXL		

4 Investigate Bivariate Data

4.1 Construct and Interpret Scatter Plots				
EQ: How does a scatter plot show the relationship between paired data?				
Obj: Students will be able to construct a scatter plot and use it to understand the relationship between paired data.				
p.	Khan Academy	IXL		
p.	relativitederity	,		
4.2 Analyze Linear Associations				
EQ: How can you describe the association of two data sets?				
Obj: Students will be able to use a line to represent the relationship	between paired data.			
p.	Khan Academy	IXL		
р. -	rvidir/icademy	DAL.		
4.3 Use Linear Models to Make Predictions				
EQ: How do linear models help you to make a prediction?				
Obj: Students will be able to make a prediction by using the equation of a line that closely fits a set of data.				
p.	Khan Academy	IXL		
p.	rvianricademy	<i>D</i> \L		
4.4 Interpret Two-Way Frequency Tables				
EQ: How does a two-way frequency table show the relationships between sets of paired data?				
Obj: Students will be able to display and interpret relationships between paired categorical data.				
p.	Khan Academy	IXL		
þ.	rvidir/icademy	D.V.E.		
4.5 Interpret Two-Way Frequency Tables				
EQ: What is the advantage of a two-way relative frequency table for	showing relationships between sets	s of paired data?		
Obj: Students will be able to find the relative frequencies of two-way	tables and interpret what they med	an.		
p.	Khan Academy	IXL		
Þ.	18 Idil / Icademy	IXL		

5 Analyze and Solve Systems of Linear Equations

5.1 Estimate Solutions by Inspection				
EQ: How are slopes and y-intercepts related to the number of solutions of a system of linear equations?				
Obj: Students will be able to find the number of solutions of a system	of equations by inspecting the equati	ions.		
Khan Academy IXL				
p.	relatividademy	17 NE		
5.2 Solve Systems by Graphing				
EQ: How does the graph of a system of linear equations represent it	s solution?			
Obj: Students will be able to find the solution to a system of equation	ns using graphs.			
p.	Khan Academy IXL			
p.	relativicademy	17 NE		
5.3 Solve Systems by Substitution				
EQ: When is substitution a useful method for solving systems of equations?				
Obj: Students will be able to solve systems of equations using substitution.				
p.	Khan Academy	IXL		
p.	retarriedderny	17 NE		
5.4 Solve Systems by Elimination				
EQ: How are the properties of equality used to solve systems of linear equations?				
Obj: Students will be able to solve systems of equations using elimination.				
p. Khan Academy IXL				
p.				



6.1 Analyze Translations				
EQ: How does a translation affect the properties of a two-dimension	al figure?			
Obj: Students will be able to translate two-dimensional figures.				
p.	Khan Academy	IXL		
p.	Nian Academy	IAL		
6.2 Analyze Reflections				
EQ: How does a reflection affect the properties of a two-dimensional	l figure?			
Obj: Students will be able to reflect two dimensional figures.				
p.	IZI A I	IVI		
þ.	Khan Academy	IXL		
6.3 Analyze Rotations				
EQ: How does a rotation affect the properties of a two-dimensional	figure?			
Obj: Students will be able to rotate a two-dimensional figure.				
p.	Khan Academy	IXL		
p.	Nian Academy	IAL		
6.4 Compose Transformations				
EQ: How can you use a sequence of transformations to map a prein	nage to its image?			
Obj: Students will be able to describe and perform a sequence of tra	nsformations.			
p.	Vhan Acadomy	IXL		
p.	Khan Academy	IXL		
6.5 Understand Congruent Figures				
EQ: How does a sequence of translations, reflections, and rotations	result in congruent figures?			
Obj: Students will be able to use a sequence of translations, reflections, and rotations to show that figures are congruent.				
p.	Khan Academy	IXL		
p.	Nian Academy	IXL		
6.6 Describe Dilations				
EQ: What is the relationship between a preimage and its image after	r a dilation?			
Obj: Students will be able to dilate two-dimensional figures.				
Obj. Students will be able to dilate two-dimensional figures.				
p.	Khan Academy	IXL		

6.7 Understand Similar Figures		
EQ: How are similar figures related by a sequence of transformation	s?	
Obj: Students will be able to use a sequence of transformations, inclu	uding dilations, to show that figures	are similar.
p.	Khan Academy	IXL
p.	Mult Academy	IXL
6.8 Angles, Lines, and Transversals		
EQ: What are the relationships among angles that are created when	a line intersects two parallel lines?	
Obj: Students will be able to identify and find the measures of angles	s formed by parallel lines and a trar	nsversal.
p.	Khan Academy	IXL
þ.	Total / Academy	IXL
6.9 Interior and Exterior Angles of Triangles	I	
EQ: How are the interior and exterior angles of a triangle related?		
Obj: Students will be able to find the interior and exterior angle mea	sures of a triangle.	
p.	Khan Academy	IXL
þ.	Totali / Caderily	DAL
6.10 Angle-Angle Triangle Similarity		
EQ: How can you use angle measures to determine whether two tric	angles are similar?	
Obj: Students will be able to use angle measures to determine wheth	ner two triangles are similar.	
p.	Khan Academy	IXL
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7 Understand and Apply the Pythagorean Theorem

7.1 Understand the Pythagorean Theorem				
EQ: How does the Pythagorean Theorem relate the side lengths of a	right triangle?.			
Obj: Students will be able to use the Pythagorean Theorem to find unknown sides of triangles.				
p.	Khan Academy	IXL		
p.	Nian Academy	IXL		
7.2 Understand the Converse of the Pythagorean Theorem				
EQ: How can you determine whether a triangle is a right triangle?				
Obj: Students will be able to use the Converse of the Pythagorean Th	neorem to identify right triangles.			
p.	Khan Academy	IXL		
p.	relativicademy	17 NE		
7.3 Apply the Pythagorean Theorem to Solve Problems				
EQ: What types of problems can be solved using the Pythagorean Theorem?				
Obj: Students will be able to use the Pythagorean Theorem to solve	problems.			
p.	Khan Academy	IXL		
p.	relativitederity	<i>17</i> \L		
7.4 Find Distance in the Coordinate Plane				
EQ: How can you use the Pythagorean Theorem to find the distance	between two points?			
Obj: Students will be able to use the Pythagorean Theorem to find th	ne distance between two points in ti	ne coordinate plane.		
p.	Khan Academy	IXL		
þ.	Total Academy	17 \		

8 Solve Problems Involving Surface Area and Volume

8.1 Find Surface Area of Three-Dimensional Figures				
EQ: How are the areas of polygons used to find the surface area formulas for three-dimensional figures?				
Obj: Students will be able to find the surface areas of cylinders, cones, and spheres.				
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þ.	retarr readerry	<i>D</i> (L		
8.2 Find Volume of Cylinders				
EQ: How is the volume of a cylinder related to the volume of a recta	ngular þrism?			
Obj: Students will be able to use what they know about finding volun	nes of rectangular prisms to find th	e volume of a cylinder.		
p.	o. Khan Academy IXL			
þ.	relativitederity	<i>D</i> (2		
8.3 Find Volume of Cones				
EQ: How is the volume of a cone related to the volume of a cylinder?				
Obj: Students will be able to find the volume of cones.				
p.	Khan Academy	IXL		
p.	relativitederity	<i>D</i> (2		
8.4 Find Volume of Spheres		_		
EQ: How is the volume of a sphere related to the volume of a cone?				
Obj: Students will be able to find the volume of a sphere and use it to solve problems.				
p. Khan Academy IXL				
p.				