



IXL Skill Alignment

8th grade alignment for GO Math! Common Core Edition



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Module 1

Real Numbers

Textbook section	IXL skills
1.1: Rational and Irrational Numbers	<ol style="list-style-type: none">1. Convert between decimals and fractions or mixed numbers 2RC2. Solve equations using square roots NNA
1.2: Sets of Real Numbers	<ol style="list-style-type: none">1. Classify numbers VR7
1.3: Ordering Real Numbers	

Module 2

Exponents and Scientific Notation

Textbook section	IXL skills
2.1: Integer Exponents	<ol style="list-style-type: none">1. Understanding exponents VFV2. Evaluate exponents EYR3. Understanding negative exponents YBB4. Evaluate negative exponents WGS5. Evaluate expressions using properties of exponents UTY <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiplication with exponents EQY• Division with exponents M2C• Multiplication and division with exponents L2J• Power rule AEQ
2.2: Scientific Notation with Positive Powers of 10	<ol style="list-style-type: none">1. Convert between standard and scientific notation H8A
2.3: Scientific Notation with Negative Powers of 10	<ol style="list-style-type: none">1. Convert between standard and scientific notation H8A
2.4: Operations with Scientific Notation	<ol style="list-style-type: none">1. Multiply numbers written in scientific notation YZU2. Divide numbers written in scientific notation SGT

Module 3

Proportional Relationships

Textbook section

IXL skills

3.1: Representing Proportional Relationships

1. Find the constant of proportionality from a table ZCK
2. Write equations for proportional relationships from tables S69
3. Identify proportional relationships from graphs and equations 45N
4. Write and solve equations for proportional relationships HPM

Also consider

- Identify proportional relationships by graphing RXD

3.2: Rate of Change and Slope

1. Find the constant of proportionality from a graph YMH
2. Find the slope of a graph D7M
3. Find the slope from two points ZAC

Also consider

- Write and solve equations for proportional relationships HPM

3.3: Interpreting the Unit Rate as Slope

Module 4

Nonproportional Relationships

Textbook section	IXL skills
4.1: Representing Linear Nonproportional Relationships	<ol style="list-style-type: none">1. Complete a table for a linear function D9B2. Complete a table and graph a linear function DC2
4.2: Determining Slope and y-Intercept	
4.3: Graphing Linear Nonproportional Relationships Using Slope and y-Intercept	
4.4: Proportional and Nonproportional Situations	<ol style="list-style-type: none">1. Identify proportional relationships by graphing RXD2. Identify proportional relationships from graphs and equations 45N

Module 5

Writing Linear Equations

Textbook section	IXL skills
5.1: Writing Linear Equations from Situations and Graphs	<ol style="list-style-type: none">1. Find the slope of a graph D7M2. Write linear functions: word problems YK6
5.2: Writing Linear Equations from a Table	<ol style="list-style-type: none">1. Write a linear function from a table UYY <p><i>Also consider</i></p> <ul style="list-style-type: none">• Write equations for proportional relationships from tables S69
5.3: Linear Relationships and Bivariate Data	

Module 6

Functions

Textbook section	IXL skills
6.1: Identifying and Representing Functions	1. Identify functions <small>ELJ</small>
6.2: Describing Functions	1. Graph a line from an equation in slope-intercept form <small>W5E</small> 2. Complete a table for a linear function <small>D9B</small>
6.3: Comparing Functions	1. Interpret points on the graph of a linear function <small>9E8</small>
6.4: Analyzing Graphs	

Module 7

Solving Linear Equations

Textbook section

IXL skills

7.1: Equations with the Variables on Both Sides

1. Model and solve equations using algebra tiles D45
2. Solve equations with variables on both sides ZYL
3. Solve one-step and two-step equations: word problems HCP

Also consider

- Solve equations involving like terms Q2B
- Solve equations: mixed review HZZ

7.2: Equations with Rational Numbers

7.3: Equations with Distributive Property

7.4: Equations with Many Solutions or No Solution

1. Find the number of solutions XDE
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Module 8

Solving Systems of Linear Equations

Textbook section	IXL skills
8.1: Solving Systems of Linear Equations by Graphing	<ol style="list-style-type: none">1. Solve a system of equations by graphing WV52. Solve a system of equations by graphing: word problems W9J <p><i>Also consider</i></p> <ul style="list-style-type: none">• Is (x, y) a solution to the system of equations? N46
8.2: Solving Systems by Substitution	<ol style="list-style-type: none">1. Solve a system of equations using substitution J8X2. Solve a system of equations using substitution: word problems 9M8
8.3: Solving Systems by Elimination	<ol style="list-style-type: none">1. Solve a system of equations using elimination ZQV2. Solve a system of equations using elimination: word problems Z97
8.4: Solving Systems by Elimination with Multiplication	
8.5: Solving Special Systems	<ol style="list-style-type: none">1. Find the number of solutions to a system of equations UYM <p><i>Also consider</i></p> <ul style="list-style-type: none">• Classify a system of equations by graphing UBP• Classify a system of equations WRL

Module 9

Transformation and Congruence

Textbook section	IXL skills
9.1: Properties of Translations	<ol style="list-style-type: none">1. Translations: graph the image XUS2. Translations: find the coordinates RUP
9.2: Properties of Reflection	<ol style="list-style-type: none">1. Reflections: graph the image NBM2. Reflections: find the coordinates KUX
9.3: Properties of Rotation	<ol style="list-style-type: none">1. Rotations: graph the image AC92. Rotations: find the coordinates HHS
9.4: Algebraic Representations of Transformations	
9.5: Congruent Figures	

Module 10

Transformation and Similarity

Textbook section	IXL skills
10.1: Properties of Dilations	1. Dilations: scale factor and classification 8NK
10.2: Algebraic Representations of Dilations	1. Dilations: graph the image 9T4 2. Dilations: find the coordinates UV9
10.3: Similar Figures	

Module 11

Angle Relationships in Parallel Lines and Triangles

Textbook section

IXL skills

11.1: Parallel Lines Cut by a Transversal

1. Transversals of parallel lines: find angle measures V99

11.2: Angle Theorems for Triangles

1. Exterior Angle Theorem FMP

Also consider

- Find missing angles in triangles JFJ

11.3: Angle-Angle Similarity

Module 12

The Pythagorean Theorem

Textbook section	IXL skills
12.1: The Pythagorean Theorem	<ol style="list-style-type: none">1. Pythagorean theorem: find the length of the hypotenuse 7ZL2. Pythagorean theorem: find the missing leg length Y9C3. Pythagorean theorem: word problems 87U <p><i>Also consider</i></p> <ul style="list-style-type: none">• Pythagorean theorem: find the perimeter VGE
12.2: Converse of the Pythagorean Theorem	<ol style="list-style-type: none">1. Converse of the Pythagorean theorem: is it a right triangle? EQZ
12.3: Distance Between Two Points	<ol style="list-style-type: none">1. Find the distance between two points ZBP

Module 13

Volume

Textbook section	IXL skills
13.1: Volume of Cylinders	
13.2: Volume of Cones	1. Volume of cylinders 9F3
13.3: Volume of Spheres	1. Volume of spheres QX7

Module 14

Scatter Plots

Textbook section	IXL skills
14.1: Scatter Plots and Association	1. Identify trends with scatter plots GZE
14.2: Trend Lines and Predictions	

Module 15

Two-Way Table

Textbook section	IXL skills
15.1: Two-Way Frequency Tables	
15.2: Two-Way Relative Frequency Tables	