



# IXL Skill Alignment

6th alignment for California GO Math!

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# Module 1

## Integers

Textbook section	IXL skills
<b>1.1:</b> Identifying Integers and Their Opposites	<b>M.4</b> Graph integers on horizontal and vertical number lines >>
<b>1.2:</b> Comparing and Ordering Integers	<b>M.5</b> Compare integers >>
<b>1.3:</b> Absolute Value	<b>M.3</b> Absolute value and opposite integers >>

# Module 2

## Greatest Common Factor

Textbook section	IXL skills
<b>2.1:</b> Greatest Common Factor	<b>E.4</b> Identify factors >>
	<b>E.7</b> Greatest common factor >>
<b>2.2:</b> Least Common Multiple	<b>E.8</b> Least common multiple >>
	<b>E.9</b> GCF and LCM: word problems >>

# Module 3

## Rational Numbers

Textbook section	IXL skills	
<b>3.1:</b> Classifying Rational Numbers		
<b>3.2:</b> Identifying Opposites and Absolute Value of Rational Numbers	<b>P.3</b>	Absolute value of rational numbers >>
<b>3.3:</b> Comparing and Ordering Rational Numbers	<b>I.9</b>	Convert between improper fractions and mixed numbers >>
	<b>I.10</b>	Convert between decimals and fractions >>
	<b>P.1</b>	Compare rational numbers >>
	<b>P.2</b>	Put rational numbers in order >>
	<i>See also:</i>	
	<b>I.12</b>	Put a mix of decimals, fractions, and mixed numbers in order >>

# Module 4

## Operations with Fractions

Textbook section	IXL skills
<b>4.1:</b> Applying GCF and LCM to Fraction Operations	<b>J.3</b> Add and subtract fractions with unlike denominators >>
	<b>J.4</b> Add and subtract fractions with unlike denominators: word problems >>
	<b>J.6</b> Add and subtract mixed numbers >>
	<b>J.7</b> Add and subtract mixed numbers: word problems >>
	<b>K.1</b> Fractions of whole numbers I >>
	<b>K.2</b> Fractions of whole numbers II >>
	<b>K.6</b> Multiply two fractions >>
	<b>K.7</b> Multiply fractions: word problems >>
	<b>K.10</b> Multiply mixed numbers and whole numbers >>
	<i>See also:</i>
	<b>E.7</b> Greatest common factor >>
	<b>E.8</b> Least common multiple >>
	<b>I.4</b> Write fractions in lowest terms >>
<b>4.2:</b> Dividing Fractions	<b>L.1</b> Divide whole numbers by unit fractions using models >>
	<b>L.2</b> Reciprocals >>
	<b>L.5</b> Divide fractions >>
<b>4.3:</b> Dividing Mixed Numbers	<b>L.7</b> Divide fractions and mixed numbers >>
	<b>L.8</b> Divide fractions and mixed numbers: word problems >>
<b>4.4:</b> Solving Multistep Problems with Fractions and Mixed Numbers	<b>O.7</b> Add, subtract, multiply, or divide two fractions >>
	<b>O.8</b> Add, subtract, multiply, or divide two fractions: word problems >>
	<b>O.9</b> Evaluate numerical expressions involving fractions >>

# Module 5

## Operations with Decimals

Textbook section	IXL skills
<b>5.1: Dividing Whole Numbers</b>	<b>C.5</b> Divide whole numbers - 2-digit divisors >> <b>C.6</b> Divide whole numbers - 3-digit divisors >>  <i>See also:</i> <b>C.3</b> Divide numbers ending in zeroes: word problems >> <b>C.4</b> Estimate quotients >>
<b>5.2: Adding and Subtracting Decimals</b>	<b>G.1</b> Add and subtract decimal numbers >> <b>G.2</b> Add and subtract decimals: word problems >> <b>U.2</b> Add and subtract money amounts >> <b>U.3</b> Add and subtract money amounts: word problems >>  <i>See also:</i> <b>G.3</b> Estimate sums and differences of decimals >>
<b>5.3: Multiplying Decimals</b>	<b>H.2</b> Multiply decimals >>  <i>See also:</i> <b>H.1</b> Estimate products of decimal numbers >> <b>U.4</b> Multiply money by whole numbers and decimals >> <b>U.5</b> Multiply money: word problems >>
<b>5.4: Dividing Decimals</b>	<b>H.4</b> Divide decimals by whole numbers >> <b>H.5</b> Divide decimals by whole numbers: word problems >> <b>H.7</b> Division with decimal quotients >> <b>U.6</b> Divide money amounts >> <b>U.7</b> Divide money amounts: word problems >>
<b>5.5: Applying Operations with Rational Numbers</b>	<b>I.10</b> Convert between decimals and fractions >>

- 0.6** Evaluate numerical expressions involving decimals >>
  - 0.9** Evaluate numerical expressions involving fractions >>
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# Module 6

## Representing Ratios and Rates

Textbook section	IXL skills
<b>6.1:</b> Ratios	<b>R.1</b> Write a ratio >>
	<b>R.2</b> Write a ratio: word problems >>
	<b>R.3</b> Identify equivalent ratios >>
	<b>R.6</b> Equivalent ratios: word problems >>
<b>6.2:</b> Rates	<b>R.5</b> Ratio tables >>
	<b>R.7</b> Unit rates and equivalent rates >>
	<b>R.9</b> Unit rates: word problems >>
	<b>V.2</b> Unit prices >>
<b>6.3:</b> Using Ratios and Rates to Solve Problems	<b>R.2</b> Write a ratio: word problems >>
	<b>R.5</b> Ratio tables >>
	<b>R.6</b> Equivalent ratios: word problems >>
	<b>R.8</b> Compare ratios: word problems >>
	<b>R.9</b> Unit rates: word problems >>



# Module 7

## Applying Ratios and Rates

Textbook section	IXL skills
<b>7.1:</b> Ratios, Rates, Tables, and Graphs	<b>R.3</b> Identify equivalent ratios >>
	<b>R.5</b> Ratio tables >>
	<b>R.6</b> Equivalent ratios: word problems >>
	<b>R.7</b> Unit rates and equivalent rates >>
	<b>R.9</b> Unit rates: word problems >>
<b>7.2:</b> Applying Ratio and Rate Reasoning	<b>R.10</b> Do the ratios form a proportion? >>
	<b>R.12</b> Scale drawings: word problems >>
<b>7.3:</b> Converting Within Measurement Systems	<b>T.3</b> Convert and compare customary units >>
	<b>T.6</b> Customary unit conversions involving fractions and mixed numbers >>
	<b>T.7</b> Convert and compare metric units >>
<b>7.4:</b> Converting Between Measurement Systems	<b>T.8</b> Convert between customary and metric systems >>

# Module 8

## Percents

Textbook section	IXL skills
<b>8.1:</b> Understanding Percent	<b>S.3</b> Compare percents to each other and to fractions >>
	<b>S.4</b> Compare percents and fractions: word problems >>
<b>8.2:</b> Percents, Fractions, and Decimals	<b>S.2</b> Convert between percents, fractions, and decimals >>
<b>8.3:</b> Solving Percent Problems	<b>S.5</b> Percents of numbers and money amounts >>
	<b>S.6</b> Percents of numbers: word problems >>
	<b>S.8</b> Find what percent one number is of another >>
	<b>S.9</b> Find what percent one number is of another: word problems >>

# Module 9

## Generating Equivalent Numerical Expressions

Textbook section	IXL skills
<b>9.1:</b> Exponents	<b>D.1</b> Write multiplication expressions using exponents >>
	<b>D.2</b> Evaluate exponents >>
	<b>D.3</b> Find the missing exponent or base >>
	<b>D.4</b> Exponents with decimal bases >>
	<b>D.5</b> Exponents with fractional bases >>
<b>9.2:</b> Prime Factorization	<b>E.4</b> Identify factors >>
	<b>E.5</b> Prime factorization >>
	<b>E.6</b> Prime factorization with exponents >>
	<i>See also:</i> <b>E.3</b> Prime or composite >>
<b>9.3:</b> Order of Operations	<b>O.3</b> Evaluate numerical expressions involving whole numbers >>
	<i>See also:</i> <b>O.9</b> Evaluate numerical expressions involving fractions >>
	<b>O.11</b> Evaluate numerical expressions involving integers >>

# Module 10

## Generating Equivalent Algebraic Expressions

Textbook section	IXL skills	
<b>10.1:</b> Modeling and Writing Expressions	<b>Y.1</b>	Write variable expressions >>
	<b>Y.2</b>	Write variable expressions: word problems >>
<b>10.2:</b> Evaluating Expressions	<b>Y.3</b>	Evaluate variable expressions with whole numbers >>
	<b>Y.4</b>	Evaluate multi-variable expressions >>
	<b>Y.5</b>	Evaluate variable expressions with decimals, fractions, and mixed numbers >>
<b>10.3:</b> Generating Equivalent Expressions	<b>Y.6</b>	Identify terms and coefficients >>
	<b>Y.8</b>	Properties of addition >>
	<b>Y.9</b>	Properties of multiplication >>
	<b>Y.10</b>	Multiply using the distributive property >>
	<b>Y.13</b>	Write equivalent expressions using properties >>
	<b>Y.14</b>	Add and subtract like terms >>
	<b>Y.15</b>	Identify equivalent expressions >>

# Module 11

## Equations and Relationships

### Textbook section

### IXL skills

**11.1:** Writing Equations to Represent Situations

**11.2:** Addition and Subtraction Equations

**11.3:** Multiplication and Division Equations

- Z.4** Model and solve equations using algebra tiles >>
- Z.6** Solve one-step equations with whole numbers >>
- Z.7** Solve one-step equations with decimals, fractions, and mixed numbers >>
- Z.8** Solve one-step equations: word problems >>

**11.4:** Writing Inequalities

- AA.1** Solutions to inequalities >>
- AA.3** Write inequalities from number lines >>
- See also:*
- AA.2** Graph inequalities on number lines >>

# Module 12

## Graphing on the Coordinate Plane

Textbook section	IXL skills
<b>12.1:</b> Graphing on the Coordinate Plane	<b>X.1</b> Objects on a coordinate plane >>
	<b>X.2</b> Graph points on a coordinate plane >>
<b>12.2:</b> Independent and Dependent Variables in Tables and Graphs	<b>BB.2</b> Identify independent and dependent variables >>
<b>12.3:</b> Writing Equations from Tables	<b>BB.5</b> Complete a table for a two-variable relationship >>
	<b>BB.6</b> Write a two-variable equation >>
<b>12.4:</b> Representing Algebraic Relationships in Tables and Graphs	<b>BB.5</b> Complete a table for a two-variable relationship >>
	<b>BB.8</b> Graph a two-variable equation >>
	<i>See also:</i> <b>BB.7</b> Identify the graph of an equation >>

# Module 13

## Area and Polygons

Textbook section	IXL skills
<b>13.1:</b> Area of Quadrilaterals	
<b>13.2:</b> Area of Triangles	<b>FF.5</b> <a href="#">Area of quadrilaterals &gt;&gt;</a>
<b>13.3:</b> Solving Area Equations	
<b>13.4:</b> Area of Polygons	<b>FF.6</b> <a href="#">Area of compound figures &gt;&gt;</a>  <i>See also:</i> <b>FF.7</b> <a href="#">Area between two rectangles &gt;&gt;</a> <b>FF.8</b> <a href="#">Area between two triangles &gt;&gt;</a>

# Module 14

## Distance and Area in the Coordinate Plane

Textbook section	IXL skills
<b>14.1:</b> Distance in the Coordinate Plane	<b>X.5</b> Distance between two points >>
<b>14.2:</b> Polygons in the Coordinate Plane	



# Module 15

## Surface Area and Volume of Solids

Textbook section	IXL skills
<b>15.1:</b> Nets and Surface Area	<b>FF.15</b> Surface area of cubes and rectangular prisms >>  <i>See also:</i> <b>EE.3</b> Nets of three-dimensional figures >>
<b>15.2:</b> Volume of Rectangular Prisms	
<b>15.3:</b> Solving Volume Equations	

# Module 16

## Displaying, Analyzing, and Summarizing Data

Textbook section	IXL skills
<b>16.1:</b> Measures of Center	
<b>16.2:</b> Mean Absolute Deviation	
<b>16.3:</b> Box Plots	<b>GG.19</b> Interpret box-and-whisker plots >>
<b>16.4:</b> Dot Plots and Data Distribution	<b>GG.3</b> Interpret line plots >> <b>GG.4</b> Create line plots >>
<b>16.5:</b> Histograms	<b>GG.12</b> Create histograms >>