



IXL Skill Alignment

5th alignment for California GO Math!

This document includes the IXL skill alignments to Houghton Mifflin Harcourt's *California GO Math!*. IXL provides skill alignments as a service to teachers, students, and parents. The following skill alignments are not affiliated with, sponsored by, or endorsed by the publisher of the referenced textbook. IXL and IXL Learning are registered trademarks of IXL Learning, Inc. All other trademarks and registered trademarks are the property of their respective owners.

Chapter 1

Place Value, Multiplication, and Expressions

Textbook section	IXL skills
1.1: Place Value and Patterns	
1.2: Place Value of Whole Numbers	A.1 Convert between standard and expanded form >>
1.3: Properties	B.6 Properties of addition >> C.6 Properties of multiplication >>
1.4: Powers of 10 and Exponents	C.3 Multiplication patterns over increasing place values >> <i>See also:</i> E.1 Understanding exponents >>
1.5: Multiplication patterns	C.3 Multiplication patterns over increasing place values >> C.4 Multiply numbers ending in zeroes >>
1.6: Multiply by 1-Digit Numbers	C.1 Multiply by 1-digit numbers >> C.2 Multiply by 1-digit numbers: word problems >>
1.7: Multiply by 2-Digit Numbers	C.8 Estimate products >> C.12 Multiply by 2-digit numbers: complete the missing steps >> C.13 Multiply 2-digit numbers by 2-digit numbers >> C.14 Multiply 2-digit numbers by 3-digit numbers >>
1.8: Relate Multiplication to Division	
1.9: Problem Solving - Multiplication and Division	P.1 Multi-step word problems >>
1.10: Numerical Expressions	
1.11: Evaluate Numerical Expressions	

1.12: Grouping Symbols

0.4 Evaluate numerical expressions >>

Chapter 2

Divide Whole Numbers

Textbook section	IXL skills
2.1: Place the First Digit	D.3 Divide multi-digit numbers by 1-digit numbers >>
2.2: Divide by 1-Digit Divisors	D.3 Divide multi-digit numbers by 1-digit numbers >> D.4 Divide multi-digit numbers by 1-digit numbers: word problems >>
2.3: Division with 2-Digit Divisors	D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers >> D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>
2.4: Partial Quotients	D.13 Divide larger numbers by 2-digit numbers >> D.14 Divide larger numbers by 2-digit numbers: word problems >>
2.5: Estimate with 2-Digit Divisors	
2.6: Divide by 2-Digit Divisors	D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers >> D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >> D.13 Divide larger numbers by 2-digit numbers >> D.14 Divide larger numbers by 2-digit numbers: word problems >>
2.7: Interpret the Remainder	D.5 Divide by 1-digit numbers: interpret remainders >> D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>
2.8: Adjust Quotients	
2.9: Problem Solving: Division	P.1 Multi-step word problems >>

Chapter 3

Add and Subtract Decimals

Textbook section	IXL skills
3.1: Thousandths	
3.2: Place Value of Decimals	G.3 Understanding decimals expressed in words >> G.4 Place values in decimal numbers >> G.5 Convert decimals between standard and expanded form >> G.16 Convert decimals between standard and expanded form using fractions >>
3.3: Compare and Order Decimals	G.10 Compare decimal numbers >> G.11 Put decimal numbers in order >>
3.4: Round Decimals	G.7 Round decimals >>
3.5: Decimal Addition	H.1 Add decimal numbers >>
3.6: Decimal Subtraction	H.2 Subtract decimal numbers >>
3.7: Estimate Decimal Sums and Differences	H.8 Estimate sums and differences of decimals >>
3.8: Add Decimals	H.1 Add decimal numbers >>
3.9: Subtract Decimals	H.2 Subtract decimal numbers >> H.4 Add and subtract decimals: word problems >>
3.10: Patterns with Decimals	G.19 Number sequences involving decimals >>
3.11: Problem Solving: Add and Subtract Money	S.1 Add and subtract money amounts >> S.2 Add and subtract money: word problems >>
3.12: Choose a Method	H.3 Add and subtract decimal numbers >> S.1 Add and subtract money amounts >> S.2 Add and subtract money: word problems >>

Chapter 4

Multiply Decimals

Textbook section	IXL skills
4.1: Multiplication Patterns with Decimals	I.2 Multiply a decimal by a power of ten >>
4.2: Multiply Decimals and Whole Numbers	I.3 Multiply a decimal by a one-digit whole number >>
4.3: Multiplication with Decimals and Whole Numbers	I.3 Multiply a decimal by a one-digit whole number >>
4.4: Multiply Using Expanded Form	
4.5: Problem Solving: Multiply Money	S.3 Multiply money amounts: word problems >>
4.6: Decimal Multiplication	I.7 Multiply two decimals using grids >>
4.7: Multiply Decimals	I.8 Multiply two decimals >>
4.8: Zeros in the Product	I.8 Multiply two decimals >>

Chapter 5

Divide Decimals

Textbook section	IXL skills
5.1: Division Patterns with Decimals	J.2 Decimal division patterns over increasing place values >>
5.2: Divide Decimals by Whole Numbers	
5.3: Estimate Quotients	
5.4: Division of Decimals by Whole Numbers	
5.5: Decimal Division	
5.6: Divide Decimals	
5.7: Write Zeros in the Dividend	J.3 Division with decimal quotients >>
5.8: Problem Solving: Decimal Operations	I.5 Multiply decimals and whole numbers: word problems >> O.6 Add, subtract, multiply, and divide decimals: word problems >> P.1 Multi-step word problems >>

Chapter 6

Add and Subtract Fractions with Unlike Denominators

Textbook section	IXL skills
6.1: Addition with Unlike Denominators	L.6 Add fractions with unlike denominators using models >>
	L.8 Add fractions with unlike denominators >>
6.2: Subtraction with Unlike Denominators	L.9 Subtract fractions with unlike denominators using models >>
	L.10 Subtract fractions with unlike denominators >>
	L.11 Add and subtract fractions with unlike denominators: word problems >>
6.3: Estimate Fraction Sums and Differences	L.17 Estimate sums and differences of mixed numbers >>
6.4: Factors	F.1 Prime and composite numbers >>
	F.2 Prime factorization >>
6.5: Common Denominators and Equivalent Fractions	K.4 Equivalent fractions >>
	K.7 Least common denominator >>
6.6: Add and Subtract Fractions	L.8 Add fractions with unlike denominators >>
	L.10 Subtract fractions with unlike denominators >>
	L.11 Add and subtract fractions with unlike denominators: word problems >>
6.7: Add and Subtract Mixed Numbers	L.18 Add mixed numbers with unlike denominators >>
	L.19 Subtract mixed numbers with unlike denominators >>
	L.20 Add and subtract mixed numbers: word problems >>
6.8: Subtraction with Renaming	L.19 Subtract mixed numbers with unlike denominators >>
6.9: Patterns with Fractions	K.12 Arithmetic sequences with fractions >>

6.10: Problem Solving: Practice Addition and Subtraction

L.20 Add and subtract mixed numbers: word problems >>

6.11: Use Properties of Addition

L.12 Add 3 or more fractions with unlike denominators >>

L.13 Add 3 or more fractions: word problems >>

Chapter 7

Multiply Fractions

Textbook section	IXL skills
7.1: Find Part of a Group	M.8 Multiply fractions by whole numbers I >>
7.2: Multiply Fractions and Whole Numbers	M.1 Multiply unit fractions by whole numbers using number lines >> M.2 Multiply unit fractions by whole numbers using models >> M.5 Multiply fractions by whole numbers using number lines >> M.6 Multiply fractions by whole numbers using models >> M.8 Multiply fractions by whole numbers I >> M.9 Multiply fractions by whole numbers II >>
7.3: Fraction and Whole Number Multiplication	M.8 Multiply fractions by whole numbers I >> M.9 Multiply fractions by whole numbers II >>
7.4: Multiply Fractions	M.12 Multiply two unit fractions using models >> M.14 Multiply two fractions using models >>
7.5: Compare Fraction Factors and Products	M.4 Multiply unit fractions and whole numbers: sorting >> M.7 Multiply fractions and whole numbers: sorting >> M.17 Scaling whole numbers by fractions >> M.18 Scaling fractions by fractions >>
7.6: Fraction Multiplication	M.14 Multiply two fractions using models >> M.15 Multiply two fractions >> M.16 Multiply two fractions: word problems >>
7.7: Area and Mixed Numbers	
7.8: Compare Mixed Number Factors and Products	M.19 Scaling mixed numbers by fractions >>

7.9: Multiply Mixed Numbers**M.23** Multiply a mixed number by a whole number >>**M.24** Multiply a mixed number by a fraction >>**M.25** Multiply two mixed numbers >>

7.10: Problem Solving: Find Unknown Lengths

Chapter 8

Divide Fractions

Textbook section	IXL skills
8.1: Divide Fractions and Whole Numbers	N.1 Divide unit fractions by whole numbers >> N.2 Divide whole numbers by unit fractions using models >> N.3 Divide whole numbers by unit fractions >> N.4 Divide whole numbers and unit fractions >> N.5 Divide fractions by whole numbers >> N.8 Divide whole numbers by fractions >>
8.2: Problem Solving: Use Multiplication	N.2 Divide whole numbers by unit fractions using models >>
8.3: Connect Fractions to Division	
8.4: Fraction and Whole-Number Division	N.5 Divide fractions by whole numbers >> N.8 Divide whole numbers by fractions >>
8.5: Interpret Division with Fractions	N.7 Divide unit fractions by whole numbers: word problems >>

Chapter 9

Algebra: Patterns and Graphing

Textbook section	IXL skills
9.1: Line Plots	W.10 Interpret line plots >> W.11 Create line plots >>
9.2: Ordered Pairs	U.1 Objects on a coordinate plane >> U.2 Graph points on a coordinate plane >> U.3 Coordinate planes as maps >>
9.3: Graph Data	W.3 Create line graphs >>
9.4: Line Graphs	W.2 Interpret line graphs >> W.3 Create line graphs >>
9.5: Numerical Patterns	C.22 Multiplication input/output tables >> T.2 Complete a geometric number sequence >> T.4 Number sequences: word problems >>
9.6: Problem Solving: Find a Rule	C.23 Multiplication input/output tables: find the rule >>
9.7: Graph and Analyze Relationships	V.10 Graph a two-variable relationship >>

Chapter 10

Convert Units of Measure

Textbook section	IXL skills
10.1: Customary Length	Z.2 Compare and convert customary units of length >>
10.2: Customary Capacity	Z.4 Compare and convert customary units of volume >>
10.3: Weight	Z.3 Compare and convert customary units of weight >>
10.4: Multistep Measurement Problems	
10.5: Metric Measures	Z.8 Compare and convert metric units of length >>
	Z.9 Compare and convert metric units of weight >>
	Z.10 Compare and convert metric units of volume >>
	Z.11 Compare and convert metric units >>
	<i>See also:</i> Z.12 Conversion tables - metric units >>
10.6: Problem Solving: Customary and Metric Conversions	Z.5 Compare and convert customary units >>
	Z.11 Compare and convert metric units >>
	<i>See also:</i> Z.6 Conversion tables - customary units >>
	Z.12 Conversion tables - metric units >>
	Z.13 Compare customary units by multiplying >>
10.7: Elapsed Time	Y.1 Convert time units >>
	Y.2 Add and subtract mixed time units >>
	Y.4 Elapsed time >>
	Y.5 Find start and end times: word problems >>

Chapter 11

Geometry and Volume

Textbook section	IXL skills
11.1: Polygons	AA.1 Is it a polygon? >> AA.2 Number of sides in polygons >> AA.3 Regular and irregular polygons >>
11.2: Triangles	BB.3 Classify triangles >>
11.3: Quadrilaterals	BB.9 Classify quadrilaterals >>
11.4: Problem Solving: Properties of Two-Dimensional Figures	
11.5: Three-Dimensional Figures	DD.1 Identify three-dimensional figures >>
11.6: Unit Cubes and Solid Figures	EE.11 Volume of rectangular prisms made of unit cubes >>
11.7: Understand Volume	EE.11 Volume of rectangular prisms made of unit cubes >> EE.12 Volume of irregular figures made of unit cubes >>
11.8: Estimate Volume	
11.9: Volume of Rectangular Prisms	EE.13 Volume of cubes and rectangular prisms >>
11.10: Apply Volume Formulas	EE.13 Volume of cubes and rectangular prisms >>
11.11: Problem Solving: Compare Volumes	
11.12: Find Volume of Composed Figures	