IXL Skill Alignment

4th alignment for California GO Math!

Chapter 1
Place Value, Addition, and Subtraction to One Million

Textbook section	IXL skills	
1.1: Model Place Value Relationships	**A.2**	Convert between standard and expanded form >>
1.2: Read and Write Numbers	**A.10**	Write word names for numbers up to one million >>
1.3: Compare and Order Numbers	**A.21**	Compare numbers up to one billion >>
1.4: Round Numbers	**A.16**	Rounding >>
1.5: Rename Numbers	**A.4**	Convert between place values >>
1.6: Add Whole Numbers	**B.2**	Add numbers up to millions >>
	B.4	Add numbers up to millions: word problems >>
	B.10	Estimate sums >>
	B.11	Estimate sums: word problems >>
	See also:	
	B.6	Properties of addition >>
1.7: Subtract Whole Numbers	**C.2**	Subtract numbers up to millions >>
	C.4	Subtract numbers up to millions: word problems >>
	C.8	Estimate differences >>
	C.9	Estimate differences: word problems >>
1.8: Comparison Problems with Addition and Subtraction	**J.1**	Read a table >>

Chapter 2
Multiply by 1-Digit Numbers

Textbook section	IXL skills	
2.1: Multiplication Comparisons		
2.2: Comparison Problems		
2.3: Multiply Tens, Hundreds, and Thousands	**D.9**	Multiplication patterns over increasing place values >>
2.4: Estimate Products	**D.13**	Estimate products - multiply by 1-digit numbers >>
2.5: Multiply Using the Distributive Property	**D.11**	Distributive property: find the missing factor >>
	D.12	Multiply using the distributive property >>
2.6: Multiply Using Expanded Form		
2.7: Multiply Using Partial Products		
2.8: Multiply Using Mental Math	**D.10**	Properties of multiplication >>
2.9: Multistep Multiplication Problems	**D.28**	Multiply three or more numbers: word problems >>
2.10: Multiply 2-Digit Numbers with Regrouping	**D.6**	Multiply 1-digit numbers by 2-digit numbers >>
2.11: Multiply 3-Digit and 4-Digit Numbers with Regrouping	**D.7**	Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
2.12: Solve Multistep Problems Using Equations		

Chapter 3
Multiply 2-Digit Numbers

Textbook section	IXL skills	
3.1: Multiply by Tens	**D.25**	Multiply numbers ending in zeroes >>
3.2: Estimate Products	**D.14**	Estimate products - multiply by larger numbers >>
	D.15	Estimate products: word problems >>
3.3: Area Models and Partial Products		
3.4: Multiply Using Partial Products	**D.16**	Box multiplication >>
	D.19	Multiply a 2-digit number by a 2-digit number >>
3.5: Multiply with Regrouping	**D.19**	Multiply a 2-digit number by a 2-digit number >>
3.6: Choose a Multiplication Method	**D.19**	Multiply a 2-digit number by a 2-digit number >>
3.7: Problem Solving - Multiply 2-Digit Numbers		

Chapter 4
Divide by 1-Digit Numbers

Textbook section	IXL skills	
4.1: Estimate Quotients Using Multiples		
4.2: Remainders		
4.3: Interpret the Remainder	**E.7**	Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
4.4: Divide Tens, Hundreds, and Thousands	**E.13**	Division patterns over increasing place values >>
	E.14	Divide numbers ending in zeroes by 1-digit numbers >>
4.5: Estimate Quotients Using Compatible Numbers	**E.15**	Divide by 1-digit numbers: estimate quotients >>
4.6: Division and the Distributive Property		
4.7: Divide Using Repeated Subtraction	**E.1**	Division facts to 12 >>
	E.4	Divide 2-digit numbers by 1-digit numbers >>
	See also:	
	E.5	Divide 2-digit numbers by 1-digit numbers: word problems >>
4.8: Divide Using Partial Quotients		
4.9: Model Division with Regrouping		
4.10: Place the First Digit	**E.8**	Divide larger numbers by 1-digit numbers >>
4.11: Divide by 1-Digit Numbers	**E.8**	Divide larger numbers by 1-digit numbers >>
	E.9	Divide larger numbers by 1-digit numbers: word problems >>
4.12: Multistep Division Problems		

Chapter 5
Factors, Multiples, and Patterns

Textbook section	IXL skills	
5.1: Model Factors	**D.5**	Identify factors >>
5.2: Factors and Divisibility	**D.5**	Identify factors >>
	E.16	Divisibility rules >>
	E.17	Divisibility rules: word problems >>
5.3: Common Factors		
5.4: Factors and Multiples	**D.4**	Choose the multiples of a given number up to 12 >>
5.5: Prime and Composite Numbers	**A.14**	Prime and composite - up to 20 >>
5.6: Number Patterns	**L.8**	Number patterns: word problems >>

Chapter 6

Fraction Equivalence and Comparison

Textbook section	IXL skills	
6.1: Equivalent Fractions	**P.5**	Find equivalent fractions using area models >>
	P.7	Equivalent fractions >>
6.2: Generate Equivalent Fractions	**P.9**	Patterns of equivalent fractions >>
6.3: Simplest Form	**P.10**	Write fractions in lowest terms >>
6.4: Common Denominators		
6.5: Problem Solving - Find Equivalent Fractions		
6.6: Compare Fractions Using Benchmarks	**P.15**	Benchmark fractions >>
	P.16	Compare fractions using benchmarks >>
6.7: Compare Fractions	**P.12**	Graph and compare fractions with like numerators or denominators on number lines >>
	P.14	Compare fractions using models >>
	P.17	Compare fractions >>
6.8: Compare and Order Fractions	**P.19**	Graph and order fractions on number lines >>
	P.21	Order fractions >>
	See also:	
	P.22	Find smaller or larger fractions >>

Chapter 7
Add and Subtract Fractions

Textbook section	IXL skills	
7.1: Add and Subtract Parts of a Whole		
7.2: Write Fractions as Sums	**Q.1**	Decompose fractions into unit fractions >>
	Q.2	Decompose fractions >>
	Q.3	Decompose fractions multiple ways >>
7.3: Add Fractions Using Models	**Q.4**	Add fractions with like denominators using number lines >>
7.4: Subtract Fractions Using Models	**Q.6**	Subtract fractions with like denominators using number lines >>
7.5: Add and Subtract Fractions	**Q.8**	Add and subtract fractions with like denominators using number lines >>
	Q.9	Add and subtract fractions with like denominators >>
	Q.11	Add and subtract fractions with like denominators: word problems >>
7.6: Rename Fractions and Mixed Numbers	**P.4**	Mixed number review >>
	P.23	Convert between improper fractions and mixed numbers >>
7.7: Add and Subtract Mixed Numbers	**Q.14**	Add and subtract mixed numbers with like denominators >>
7.8: Subtraction with Renaming	**Q.14**	Add and subtract mixed numbers with like denominators >>
7.9: Fractions and Properties of Addition		
7.10: Multistep Fraction Problems		

Chapter 8
Multiply Fractions by Whole Numbers

Textbook section	IXL skills	
8.1: Multiples of Unit Fractions	**S.1**	Multiply unit fractions by whole numbers using number lines >>
	S.2	Multiply unit fractions by whole numbers using models >>
	S.3	Multiples of fractions >>
	S.5	Multiply unit fractions by whole numbers >>
	S.6	Multiply unit fractions by whole numbers: word problems >>
8.2: Multiples of Fractions	**S.3**	Multiples of fractions >>
	S.7	Multiply fractions by whole numbers using number lines >>
8.3: Multiply a Fraction by a Whole Number Using Models	**S.2**	Multiply unit fractions by whole numbers using models >>
	S.7	Multiply fractions by whole numbers using number lines >>
	S.8	Multiply fractions by whole numbers using models >>
	S.10	Multiply fractions by whole numbers >>
	S.12	Multiply fractions by whole numbers: word problems >>
8.4: Multiply a Fraction or Mixed Number by a Whole Number	**S.13**	Multiply fractions and mixed numbers by whole numbers in recipes >>
8.5: Comparison Problems with Fractions	**S.6**	Multiply unit fractions by whole numbers: word problems >>
	S.12	Multiply fractions by whole numbers: word problems >>

Chapter 9
Relate Fractions and Decimals

Textbook section	IXL skills	
9.1: Relate Tenths and Decimals		
9.2: Relate Hundredths and Decimals	**T.1**	What decimal number is illustrated? >>
	T.2	Model decimals and fractions >>
	T.3	Understanding decimals expressed in words >>
	T.4	Place values in decimal numbers >>
	T.6	Graph decimals on number lines >>
	T.8	Graph fractions as decimals on number lines >>
9.3: Equivalent Fractions and Decimals	**P.8**	Fractions with denominators of 10, 100, and 1000 >>
	T.5	Equivalent decimals >>
	T.8	Graph fractions as decimals on number lines >>
9.4: Relate Fractions, Decimals, and Money	**M.1**	Count coins and bills - up to $5 bill >>
9.5: Problem Solving - Money	**M.4**	Add and subtract money amounts >>
	M.5	Add, subtract, multiply, and divide money amounts >>
9.6: Add Fractional Parts of 10 and 100	**R.5**	Add fractions with denominators of 10 and 100 >>
	R.6	Add and subtract fractions with denominators of 10, 100, and 1000 >>
9.7: Compare Decimals	**T.14**	Compare decimals on number lines >>
	T.15	Compare decimal numbers >>
	T.18	Compare decimals and fractions on number lines >>
	See also:	
	T.19	Compare decimals and fractions >>

Chapter 10
Two-Deimensional Figures

Textbook section	IXL skills	
10.1: Lines, Rays, and Angles	**W.4**	Lines, line segments, and rays >>
	Z.1	Acute, right, obtuse, and straight angles >>
10.2: Classify Triangles by Angles	**X.1**	Acute, obtuse, and right triangles >>
10.3: Classify Triangles by Sides	**X.2**	Scalene, isosceles, and equilateral triangles >>
10.4: Parallel Lines and Perpendicular Lines	**W.5**	Parallel, perpendicular, and intersecting lines >>
10.5: Classify Quadrilaterals	**X.9**	Classify quadrilaterals >>
10.6: Line Symmetry	**Y.1**	Identify lines of symmetry >>
10.7: Find and Draw Lines of Symmetry		
10.8: Problem Solving - Shape Patterns	**L.9**	Number patterns: mixed review >>

Chapter 11
Angles

Textbook section	IXL skills	
11.1: Angles and Fractional Parts of a Circle		
11.2: Degrees	**Z.2**	Angles of 90, 180, 270, and 360 degrees >>
11.3: Measure and Draw Angles	**Z.3**	Measure angles with a protractor >>
11.4: Join and Separate Angles	**Z.5**	Adjacent angles >>
11.5: Problem Solving - Unknown Angle Measures	**Z.5**	Adjacent angles >>

Chapter 12

Relative Sizes of Measurement Units

Textbook section	IXL skills	
12.1: Measurement Benchmarks	**N.2**	Which customary unit is appropriate? >>
	N.11	Which metric unit is appropriate? >>
12.2: Customary Units of Length	**N.3**	Compare and convert customary units of length >>
12.3: Customary Units of Weight	**N.4**	Compare and convert customary units of weight >>
12.4: Customary Units of Liquid Volume	**N.5**	Compare and convert customary units of volume >>
	See also:	
	N.7	Conversion tables - customary units >>
12.5: Line Plots	**J.6**	Interpret line plots >>
	J.7	Create line plots >>
12.6: Metric Units of Length	**N.12**	Compare and convert metric units of length >>
12.7: Metric Units of Mass and Liquid Volume	**N.13**	Compare and convert metric units of weight >>
	N.14	Compare and convert metric units of volume >>
	See also:	
	N.16	Conversion tables - metric units >>
12.8: Units of Time	**O.1**	Convert time units >>
12.9: Problem Solving - Elapsed Time	**O.5**	Elapsed time >>
	O.6	Elapsed time: word problems >>
12.10: Mixed Measures	**N.10**	Add and subtract mixed customary units >>
12.11: Patterns in Measurement Units		

Chapter 13
Algebra: Perimeter and Area

Textbook section	IXL skills	
13.1: Perimeter	**BB.1**	Perimeter >>
13.2: Area	**BB.6**	Find the area or missing side length of a rectangle >>
13.3: Area of Combined Rectangles	**BB.7**	Area of complex figures (with all right angles) >>
13.4: Find Unknown Measures	**BB.1**	Perimeter >>
	See also:	
	BB.10	Relationship between area and perimeter >>
13.5: Problem Solving - Find the Area	**BB.8**	Area between two rectangles >>