IXL Skill Alignment

4th alignment for My Math

Chapter 1
Place Value

Textbook section	IXL skills	
Lesson 1: Place Value	**A.1**	Value of a digit >>
	A.3	Place value names >>
	A.4	Convert between place values >>
Lesson 2: Read and Write Multi-Digit Numbers	**A.2**	Convert between standard and expanded form >>
	A.5	Choose word names for numbers up to one thousand >>
	A.6	Write word names for numbers up to one thousand >>
	A.9	Choose word names for numbers up to one million >>
	A.10	Write word names for numbers up to one million >>
Lesson 3: Compare Numbers	**A.21**	Compare numbers up to one billion >>
Lesson 4: Order Numbers		
Lesson 5: Use Place Value to Round	**A.16**	Rounding >>
Lesson 6: Problem-Solving Investigation	**K.1**	Place value word problems >>

Chapter 2
Add and Subtract Whole Numbers

Textbook section	IXL skills	
Lesson 1: Addition Properties and Subtraction Rules	**B.6**	Properties of addition >>
Lesson 2: Addition and Subtraction Patterns	**B.8**	Addition patterns over increasing place values >>
	C.6	Subtraction patterns over increasing place values >>
Lesson 3: Add and Subtract Mentally		
Lesson 4: Estimate Sums and Differences	**B.10**	Estimate sums >>
	B.11	Estimate sums: word problems >>
	C.8	Estimate differences >>
	C.9	Estimate differences: word problems >>
Lesson 5: Add Whole Numbers	**B.2**	Add numbers up to millions >>
	B.5	Addition: fill in the missing digits >>
	B.7	Add 3 or more numbers up to millions >>
	B.9	Choose numbers with a particular sum >>
Lesson 6: Subtract Whole Numbers		
Lesson 7: Subtract Across Zero	**C.2**	Subtract numbers up to millions >>
	C.5	Subtraction: fill in the missing digits >>
	C.7	Choose numbers with a particular difference >>
Lesson 8: Problem-Solving Investigation Strategy: Draw a Diagram	**B.4**	Add numbers up to millions: word problems >>
	C.4	Subtract numbers up to millions: word problems >>
Lesson 9: Solve Multi-Step Word Problems	**K.2**	Find two numbers based on sum and difference >>

Chapter 3
Understand Multiplication and Division

Textbook section	IXL skills	
Lesson 1: Relate Multiplication and Division	**D.1**	Multiplication facts to 12 >>
	D.2	Multiplication facts up to 12: find the missing factor >>
	D.5	Identify factors >>
	E.2	Division facts to 12: word problems >>
Lesson 2: Relate Division and Subtraction		
Lesson 3: Multiplication as Comparison	**D.3**	Compare numbers using multiplication >>
Lesson 4: Compare to Solve Problems	**E.22**	Divide by 2-digit numbers: word problems >>
	E.25	Inequalities with division >>
Lesson 5: Multiplication Properties and Division Rules	**E.3**	Properties of division >>
Lesson 6: The Associative Property of Multiplication	**D.28**	Multiply three or more numbers: word problems >>
Lesson 7: Factors and Multiples	**D.4**	Choose the multiples of a given number up to 12 >>
	D.5	Identify factors >>
Lesson 8: Problem-Solving Investigation Strategy: Reasonable Answers		

Chapter 4
Multiply with One-Digit Numbers

Textbook section	IXL skills	
Lesson 1: Multiples of 10, 100, and 1,000	**D.25**	Multiply numbers ending in zeroes >>
	D.26	Multiply numbers ending in zeroes: word problems >>
Lesson 2: Round to Estimate Products	**D.13**	Estimate products - multiply by 1-digit numbers >>
Lesson 3: Hands On: Use Place Value to Multiply		
Lesson 4: Hands On: Use Models to Multiply		
Lesson 5: Multiply by a Two-Digit Number		
Lesson 6: Hands On: Model Reqrouping		
Lesson 7: The Distributive Property	**D.10**	Properties of multiplication >>
	D.11	Distributive property: find the missing factor >>
	D.12	Multiply using the distributive property >>
Lesson 8: Multiply with Reqrouping	**D.6**	Multiply 1-digit numbers by 2-digit numbers >>
Lesson 9: Multiply by a Multi-Digit Number	**D.7**	Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
	D.9	Multiplication patterns over increasing place values >>
Lesson 10: Problem Solving: Estimate or Exact Answer		
Lesson 11: Multiply Across Zeroes		

Chapter 5
Multiply with Two-Digit Numbers

Textbook section	IXL skills	
Lesson 1: Multiply by Tens	**D.25**	Multiply numbers ending in zeroes >>
Lesson 2: Estimate Products		
Lesson 3: Hands On: Use the Distributive Property to Multiply	**D.11**	Distributive property: find the missing factor >>
	D.12	Multiply using the distributive property >>
Lesson 4: Multiply by a Two-Digit Number	**D.18**	Multiply a 2-digit number by a 2-digit number: complete the missing steps >>
	D.19	Multiply a 2-digit number by a 2-digit number >>
	D.20	Multiply a 2-digit number by a 2-digit number: word problems >>
Lesson 5: Solve Multi-Step Word Problems	**F.5**	Solve word problems using guess-and-check >>
Lesson 6: Problem Solving: Make a Table	**D.30**	Multiplication input/output tables >>
	D.31	Multiplication input/output tables: find the rule >>

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Chapter 6
Divide by a One-Digit Number

Textbook section	IXL skills	
Lesson 1: Divide Multiples of 10, 100, and 1,000	**E.13**	Division patterns over increasing place values >>
Lesson 2: Estimate Quotients	**E.15**	Divide by 1-digit numbers: estimate quotients >>
	E.17	Divisibility rules: word problems >>
Lesson 3: Hands On: Use Place Value to Divide		
Lesson 4: Problem Solving: Make a Model		
Lesson 5: Divide with Remainders	**E.4**	Divide 2-digit numbers by 1-digit numbers >>
	E.6	Divide 2-digit numbers by 1-digit numbers: complete the table >>
Lesson 6: Interpret Remainders	**E.5**	Divide 2-digit numbers by 1-digit numbers: word problems >>
	E.7	Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
Lesson 7: Place the First Digit	**E.4**	Divide 2-digit numbers by 1-digit numbers >>
Lesson 8: Hands On: Distributive Property and Partial Quotients		
Lesson 9: Divide Greater Numbers		
Lesson 10: Quotients with Zeros	**E.8**	Divide larger numbers by 1-digit numbers >>
	E.9	Divide larger numbers by 1-digit numbers: word problems >>
	E.10	Divide larger numbers by 1-digit numbers: complete the table >>
	E.11	Divide larger numbers by 1-digit numbers: interpret remainders >>

Lesson 11: Solve Multi-Step Word Problems

F.3	Estimate sums, differences, products, and quotients: word problems >>
F.6	Multi-step word problems >>
F.7	Choose numbers with a particular sum, difference, product, or quotient >>
G.4	Write variable equations to represent word problems >>
G.5	Solve variable equations >>
K.3	Find two numbers based on sum, difference, product, and quotient >>

Chapter 7
Patterns and Sequences

Textbook section	IXL skills	
Lesson 1: Nonnumeric Patterns	**L.1**	Find the next shape in a repeating pattern >>
	L.2	Complete a repeating pattern >>
	L.3	Make a repeating pattern >>
	L.4	Find the next row in a growing pattern of shapes >>
Lesson 2: Numeric Patterns	**L.5**	Complete an increasing number pattern >>
	L.6	Complete a geometric number pattern >>
	L.9	Number patterns: mixed review >>
Lesson 3: Sequences	**L.7**	Use a rule to complete a number pattern >>
Lesson 4: Problem Solving: Look for a Pattern	**D.30**	Multiplication input/output tables >>
	L.8	Number patterns: word problems >>
Lesson 5: Addition and Subtraction Rules		
Lesson 6: Multiplication and Division Rules	**D.30**	Multiplication input/output tables >>
	D.31	Multiplication input/output tables: find the rule >>
	H.1	Input/output tables with addition, subtraction, multiplication, and division >>
	H.2	Complete a table for a two-variable relationship >>
	H.3	Write a two-variable equation >>
Lesson 7: Order of Operations	**F.10**	Perform multiple operations with whole numbers >>
Lesson 8: Hands On: Equations with Two Operations	**G.1**	Write variable expressions >>
	G.3	Evaluate variable expressions >>
Lesson 9: Equations with Multiple Operations		

Chapter 8
Fractions

Textbook section	IXL skills	
Lesson 1: Factors and Multiples	**D.4**	Choose the multiples of a given number up to 12 >>
	D.5	Identify factors >>
	D.21	Choose numbers with a particular product >>
Lesson 2: Prime and Composite Numbers	**A.14**	Prime and composite - up to 20 >>
	A.15	Prime and composite - up to 100 >>
Lesson 3: Hands On: Model Equivalent Fractions	**P.5**	Find equivalent fractions using area models >>
	P.6	Graph equivalent fractions on number lines >>
Lesson 4: Equivalent Fractions	**P.5**	Find equivalent fractions using area models >>
	P.6	Graph equivalent fractions on number lines >>
Lesson 5: Simplest Form	**P.10**	Write fractions in lowest terms >>
Lesson 6: Compare and Order Fractions	**P.14**	Compare fractions using models >>
	P.17	Compare fractions >>
	P.21	Order fractions >>
Lesson 7: Use Benchmark Fractions to Compare and Order	**P.15**	Benchmark fractions >>
	P.16	Compare fractions using benchmarks >>
Lesson 8: Problem Solving: Use Logical Reasoning	**P.18**	Compare fractions in recipes >>
	P.22	Find smaller or larger fractions >>
Lesson 9: Mixed Numbers	**P.4**	Mixed number review >>
Lesson 10: Mixed Numbers and Improper Fractions		

Chapter 9
Operations with Fractions

Textbook section	IXL skills	
Lesson 1: Hands On: Use Models to Add Like Fractions	**Q.1**	Decompose fractions into unit fractions >>
	Q.2	Decompose fractions >>
	Q.3	Decompose fractions multiple ways >>
	Q.4	Add fractions with like denominators using number lines >>
Lesson 2: Add Like Fractions	**Q.5**	Add fractions with like denominators >>
Lesson 3: Hands On: Use Models to Subtract Like Fractions	**Q.6**	Subtract fractions with like denominators using number lines >>
Lesson 4: Subtract Like Fractions	**Q.7**	Subtract fractions with like denominators >>
	Q.8	Add and subtract fractions with like denominators using number lines >>
	Q.9	Add and subtract fractions with like denominators >>
Lesson 5: Problem Solving: Work Backward	**Q.12**	Add and subtract fractions with like denominators in recipes >>
Lesson 6: Add Mixed Numbers		
Lesson 7: Subtract Mixed Numbers		
Lesson 8: Hands On: Model Fractions and Multiplication	**S.1**	Multiply unit fractions by whole numbers using number lines >>
	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 >>
Lesson 9: Multiply Fractions by Whole Numbers	**S.4**	Multiply unit fractions and whole numbers: sorting >>
	S.6	Multiply unit fractions by whole numbers: word problems >>

Chapter 10
Fractions and Decimals

Textbook section	IXL skills	
Lesson 1: Hands On: Place Value Through Tenths and Hundredths	**T.1**	What decimal number is illustrated? >>
Lesson 2: Tenths		
Lesson 3: Hundredths		
Lesson 4: Hands On: Model Decimals and Fractions	**T.2**	Model decimals and fractions >>
Lesson 5: Decimals and Fractions	**T.9**	Convert fractions and mixed numbers to decimals - denominators of 10 and 100 >>
Lesson 6: Use Place Value and Models to Add	**R.5**	Add fractions with denominators of 10 and 100 >>
Lesson 7: Compare and Order Decimals	**M.2**	Compare money amounts >>
	T.14	Compare decimals on number lines >>
	T.15	Compare decimal numbers >>
	T.16	Put decimal numbers in order I >>
	T.17	Put decimal numbers in order II >>
Lesson 8: Problem Solving: Extra or Missing Information	**T.7**	Decimal number lines >>

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Chapter 11
Customary Measurement

Textbook section	IXL skills	
Lesson 1: Customary Units of Length	**N.1**	Measure using an inch ruler >>
Lesson 2: Convert Customary Units of Length		
Lesson 3: Customary Units of Capacity		
Lesson 4: Convert Customary Units of Capacity		
Lesson 5: Customary Units of Weight	**N.2**	Which customary unit is appropriate? >>
Lesson 6: Convert Customary Units of Weight		
Lesson 7: Convert Units of Time		
Lesson 8: Display Measurement Data in a Line Plot	**J.8**	Create and interpret line plots with fractions >>
Lesson 9: Solve Measurement Problems		
Lesson 10: Problem Solving: Guess, Check, and Revise	**K.4**	Find the order >>

Chapter 12
Metric Measurement

Textbook section	IXL skills	
Lesson 1: Metric Units of Length		
Lesson 2: Metric Units of Capacity		
Lesson 3: Metric Units of Mass	**N.11**	Which metric unit is appropriate? >>
Lesson 4: Problem Solving: Make an Organized List	**M.1**	Count coins and bills - up to $5 bill >>
	M.2	Compare money amounts >>
Lesson 5: Convert Metric Units	**N.17**	Convert metric mixed units >>
Lesson 6: Solve Measurement Problems		

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Chapter 13
Perimeter and Area

Textbook section	IXL skills	
Lesson 1: Measure Perimeter	BB.1	Perimeter >>
Lesson 2: Problem Solving: Solve a Simpler Problem	BB.2	Perimeter: find the missing side lengths >>
Lesson 3: Hands On: Model Area	BB.3	Select figures with a given area >>
	BB.4	Select two figures with the same area >>
	BB.5	Create figures with a given area >>
Lesson 4: Measure Area	BB.6	Find the area or missing side length of a rectangle >>
	BB.7	Area of complex figures (with all right angles) >>
Lesson 5: Relate Area and Perimeter	BB.10	Relationship between area and perimeter >>
	BB.11	Area and perimeter: word problems >>

Chapter 14
Geometry

Textbook section	IXL skills	
Lesson 1: Draw Points, Lines, and Rays	**W.4**	Lines, line segments, and rays >>
Lesson 2: Draw Parallel and Perpendicular Lines	**W.5**	Parallel, perpendicular, and intersecting lines >>
Lesson 3: Hands On: Model Angles		
Lesson 4: Classify Angles	**Z.1**	Acute, right, obtuse, and straight angles >>
	Z.2	Angles of 90, 180, 270, and 360 degrees >>
Lesson 5: Measure Angles	**Z.3**	Measure angles with a protractor >>
	Z.4	Estimate angle measurements >>
Lesson 6: Draw Angles		
Lesson 7: Solve Problems with Angles	**Z.5**	Adjacent angles >>
Lesson 8: Triangles	**X.1**	Acute, obtuse, and right triangles >>
Lesson 9: Quadrilaterals	**X.5**	Identify parallelograms >>
	X.6	Identify trapezoids >>
	X.7	Identify rectangles >>
	X.8	Identify rhombuses >>
	X.9	Classify quadrilaterals >>
Lesson 10: Draw Lines of Symmetry	**Y.1**	Identify lines of symmetry >>
	Y.2	Draw lines of symmetry >>
	Y.3	Count lines of symmetry >>