



# IXL Skill Alignment

4th alignment for Texas GO Math!

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# Module 1

## Whole Number Place Value

Textbook section	IXL skills
<b>1.1:</b> Place Value and Patterns	<b>A.2</b> Convert between standard and expanded form >> <b>A.4</b> Convert between place values >>
<b>1.2:</b> Read and Write Numbers	<b>A.10</b> Write word names for numbers up to one million >>
<b>1.3:</b> Problem Solving: Compare and Order Numbers	<b>A.21</b> Compare numbers up to one billion >>
<b>1.4:</b> Round Numbers	<b>A.16</b> Rounding >>

# Module 2

## Decimal Place Value

Textbook section	IXL skills
<b>2.1:</b> Model Tenths and Hundredths	<b>T.1</b> What decimal number is illustrated? >>
	<b>T.2</b> Model decimals and fractions >>
<b>2.2:</b> Explore Decimal Place Value	<b>T.3</b> Understanding decimals expressed in words >>
	<b>T.4</b> Place values in decimal numbers >>
<b>2.3:</b> Problem Solving: Relate Tenths and Decimals	
<b>2.4:</b> Relate Hundredths and Decimals	<b>T.6</b> Graph decimals on number lines >>
	<b>T.8</b> Graph fractions as decimals on number lines >>
	<b>T.10</b> Convert fractions and mixed numbers to decimals >>
	<b>T.11</b> Convert decimals to fractions and mixed numbers >>
<b>2.5:</b> Relate Fractions, Decimals, and Money	
<b>2.6:</b> Compare Decimals	<b>T.14</b> Compare decimals on number lines >>
	<b>T.15</b> Compare decimal numbers >>
	<i>See also:</i>
	<b>T.18</b> Compare decimals and fractions on number lines >>
	<b>T.19</b> Compare decimals and fractions >>
	<b>U.10</b> Solve decimal problems using diagrams >>
<b>2.7:</b> Order Decimals	<b>M.2</b> Compare money amounts >>
	<b>T.16</b> Put decimal numbers in order I >>
	<b>T.17</b> Put decimal numbers in order II >>

# Module 3

## Fraction Concepts

Textbook section	IXL skills
<b>3.1:</b> Equivalent Fractions	<b>P.7</b> Equivalent fractions >>  <i>See also:</i> <b>P.6</b> Graph equivalent fractions on number lines >>
<b>3.2:</b> Generate Equivalent Fractions	<b>P.5</b> Find equivalent fractions using area models >>
<b>3.3:</b> Simplest Form	<b>P.10</b> Write fractions in lowest terms >>
<b>3.4:</b> Problem Solving: Find Equivalent Fractions	<b>P.9</b> Patterns of equivalent fractions >>
<b>3.5:</b> Write Fractions as Sums	<b>Q.1</b> Decompose fractions into unit fractions >>  <i>See also:</i> <b>Q.2</b> Decompose fractions >> <b>Q.3</b> Decompose fractions multiple ways >>
<b>3.6:</b> Rename Fractions and Mixed Numbers	<b>P.4</b> Mixed number review >> <b>P.23</b> Convert between improper fractions and mixed numbers >>

# Module 4

## Compare Fractions

Textbook section	IXL skills
<b>4.1:</b> Compare Fractions Using Benchmarks	<b>P.16</b> Compare fractions using benchmarks >>  <i>See also:</i> <b>P.15</b> Benchmark fractions >>
<b>4.2:</b> Compare Fractions	<b>P.13</b> Compare fractions with like numerators or denominators >> <b>P.17</b> Compare fractions >>  <i>See also:</i> <b>P.11</b> Compare fractions with like numerators or denominators using models >> <b>P.12</b> Graph and compare fractions with like numerators or denominators on number lines >> <b>P.14</b> Compare fractions using models >> <b>P.18</b> Compare fractions in recipes >>
<b>4.3:</b> Problem Solving: Compare and Order Fractions	<b>P.19</b> Graph and order fractions on number lines >> <b>P.20</b> Order fractions with like numerators or denominators >> <b>P.21</b> Order fractions >>  <i>See also:</i> <b>P.22</b> Find smaller or larger fractions >>

# Module 5

## Add and Subtract Fractions

Textbook section	IXL skills
5.1: Add and Subtract Parts of a Whole	
5.2: Add Fractions Using Models	
5.3: Problem Solving: Subtract Fractions Using Models	
5.4: Use Benchmarks to Determine Reasonableness	<p><b>Q.9</b> Add and subtract fractions with like denominators &gt;&gt;</p> <p><b>Q.11</b> Add and subtract fractions with like denominators: word problems &gt;&gt;</p> <p><i>See also:</i></p> <p><b>Q.10</b> Compare sums and differences of fractions with like denominators &gt;&gt;</p>
5.5: Add and Subtract Fractions	<p><b>Q.9</b> Add and subtract fractions with like denominators &gt;&gt;</p> <p><b>Q.11</b> Add and subtract fractions with like denominators: word problems &gt;&gt;</p> <p><b>Q.12</b> Add and subtract fractions with like denominators in recipes &gt;&gt;</p>
5.6: Add and Subtract Mixed Numbers	<p><b>Q.14</b> Add and subtract mixed numbers with like denominators &gt;&gt;</p>
5.7: Use Properties of Addition	<p><b>Q.13</b> Add 3 or more fractions with like denominators &gt;&gt;</p>

# Module 6

## Add and Subtract Whole Numbers and Decimals

Textbook section	IXL skills
<b>6.1:</b> Add Whole Numbers	<b>B.2</b> Add numbers up to millions >>
	<b>B.4</b> Add numbers up to millions: word problems >>
	<i>See also:</i>
	<b>B.5</b> Addition: fill in the missing digits >> <b>B.10</b> Estimate sums >>
<b>6.2:</b> Subtract Whole Numbers	<b>C.2</b> Subtract numbers up to millions >>
	<b>C.4</b> Subtract numbers up to millions: word problems >>
	<i>See also:</i>
	<b>C.5</b> Subtraction: fill in the missing digits >> <b>C.8</b> Estimate differences >>
	<b>F.8</b> Mentally add and subtract numbers ending in zeroes >>
<b>6.3:</b> Problem Solving: Comparison Problems with Addition and Subtraction	<b>A.21</b> Compare numbers up to one billion >>
	<b>B.4</b> Add numbers up to millions: word problems >>
	<b>C.4</b> Subtract numbers up to millions: word problems >>
<b>6.4:</b> Add Decimals	<b>U.1</b> Add decimal numbers >>
	<i>See also:</i>
	<b>U.5</b> Add 3 or more decimals >> <b>U.6</b> Add 3 or more decimals: word problems >>
<b>6.5:</b> Subtract Decimals	<b>U.2</b> Subtract decimal numbers >>
	<b>U.3</b> Add and subtract decimals: word problems >>
	<b>U.9</b> Estimate sums and differences of decimals >>

*See also:*

**U.7** Complete the addition or subtraction sentence >>

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# Module 7

## Multiply by 1-Digit Numbers

Textbook section	IXL skills
<b>7.1:</b> Multiply Tens, Hundreds, and Thousands	<b>D.1</b> Multiplication facts to 12 >> <b>D.9</b> Multiplication patterns over increasing place values >> <b>D.25</b> Multiply numbers ending in zeroes >>
<b>7.2:</b> Estimate Products	<b>D.13</b> Estimate products - multiply by 1-digit numbers >>
<b>7.3:</b> Multiply Using the Distributive Property	<b>D.11</b> Distributive property: find the missing factor >>
<b>7.4:</b> Multiply Using Expanded Form	<b>D.6</b> Multiply 1-digit numbers by 2-digit numbers >> <b>D.7</b> Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
<b>7.5:</b> Multiply Using Partial Products	<b>D.6</b> Multiply 1-digit numbers by 2-digit numbers >> <b>D.7</b> Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
<b>7.6:</b> Multiply Using Mental Math	<b>D.11</b> Distributive property: find the missing factor >> <b>D.12</b> Multiply using the distributive property >>
<b>7.7:</b> Problem Solving: Multi-Step Multiplication Problems	
<b>7.8:</b> Multiply 3-Digit and 4-Digit Numbers with Regrouping	<b>D.7</b> Multiply 1-digit numbers by 3-digit or 4-digit numbers >>

# Module 8

## Multiply 2-Digit Numbers

Textbook section	IXL skills
<b>8.1:</b> Multiply by Tens	
<b>8.2:</b> Estimate Products	
<b>8.3:</b> Area Models and Partial Products	
<b>8.4:</b> Multiply Using Partial Products	<b>D.18</b> Multiply a 2-digit number by a 2-digit number: complete the missing steps >> <b>D.19</b> Multiply a 2-digit number by a 2-digit number >> <b>D.20</b> Multiply a 2-digit number by a 2-digit number: word problems >>
<b>8.5:</b> Multiply with Regrouping	<b>D.19</b> Multiply a 2-digit number by a 2-digit number >> <b>D.20</b> Multiply a 2-digit number by a 2-digit number: word problems >>
<b>8.6:</b> Choose a Multiplication Method	<b>D.19</b> Multiply a 2-digit number by a 2-digit number >> <b>D.20</b> Multiply a 2-digit number by a 2-digit number: word problems >>
<b>8.7:</b> Problem Solving: Multiply 2-Digit Numbers	<b>D.20</b> Multiply a 2-digit number by a 2-digit number: word problems >>

# Module 9

## Division Strategies

Textbook section	IXL skills
<b>9.1:</b> Remainders	
<b>9.2:</b> Problem Solving: Interpret the Remainder	<b>E.7</b> Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
<b>9.3:</b> Divide Tens, Hundreds, and Thousands	<b>E.20</b> Divide 2-digit numbers by multiples of 10 >>
<b>9.4:</b> Estimate Quotients Using Compatible Numbers	<b>E.15</b> Divide by 1-digit numbers: estimate quotients >>  <i>See also:</i> <b>E.25</b> Inequalities with division >> <b>E.26</b> Estimate quotients >>
<b>9.5:</b> Division and the Distributive Property	

# Module 10

## Divide by 1-Digit Numbers

Textbook section	IXL skills
<b>10.1:</b> Divide Using Repeated Subtraction	<b>E.4</b> Divide 2-digit numbers by 1-digit numbers >>
<b>10.2:</b> Divide Using Partial Quotients	<b>E.4</b> Divide 2-digit numbers by 1-digit numbers >> <b>E.5</b> Divide 2-digit numbers by 1-digit numbers: word problems >> <b>E.8</b> Divide larger numbers by 1-digit numbers >> <b>E.9</b> Divide larger numbers by 1-digit numbers: word problems >>  <i>See also:</i> <b>E.11</b> Divide larger numbers by 1-digit numbers: interpret remainders >>
<b>10.3:</b> Model Division with Regrouping	<b>E.4</b> Divide 2-digit numbers by 1-digit numbers >> <b>E.5</b> Divide 2-digit numbers by 1-digit numbers: word problems >>
<b>10.4:</b> Problem Solving: Place the First Digit	<b>E.8</b> Divide larger numbers by 1-digit numbers >> <b>E.9</b> Divide larger numbers by 1-digit numbers: word problems >> <b>E.17</b> Divisibility rules: word problems >>
<b>10.5:</b> Divide by 1-Digit Numbers	<b>E.8</b> Divide larger numbers by 1-digit numbers >> <b>E.9</b> Divide larger numbers by 1-digit numbers: word problems >>

# Module 11

## Algebra: Multi-Step Problems

Textbook section	IXL skills
<b>11.1:</b> Multi-Step Addition Problems	
<b>11.2:</b> Multi-Step Subtraction Problems	
<b>11.3:</b> Solve Multi-Step Problems Using Equations	<b>G.4</b> Write variable equations to represent word problems >>
<b>11.4:</b> Problem Solving: Multi-Step Division Problems	<b>F.5</b> Solve word problems using guess-and-check >>
	<b>F.6</b> Multi-step word problems >>

# Module 12

## Number Patterns, Perimeter, and Area

Textbook section	IXL skills
<b>12.1:</b> Number Patterns	
<b>12.2:</b> Find a Rule	<b>D.30</b> Multiplication input/output tables >> <b>D.31</b> Multiplication input/output tables: find the rule >> <b>H.1</b> Input/output tables with addition, subtraction, multiplication, and division >>
<b>12.3:</b> Model Perimeter Formulas	
<b>12.4:</b> Model Area Formulas	<b>BB.6</b> Find the area or missing side length of a rectangle >>
<b>12.5:</b> Problem Solving: Find the Perimeter and Area	<b>BB.1</b> Perimeter >> <b>BB.8</b> Area between two rectangles >>

# Module 13

## Geometry Concepts

Textbook section	IXL skills
<b>13.1:</b> Lines, Rays, and Angles	<b>W.4</b> Lines, line segments, and rays >> <b>Z.1</b> Acute, right, obtuse, and straight angles >>
<b>13.2:</b> Classify Triangles	<b>X.1</b> Acute, obtuse, and right triangles >>
<b>13.3:</b> Parallel Lines and Perpendicular Lines	<b>W.5</b> Parallel, perpendicular, and intersecting lines >>
<b>13.4:</b> Classify Quadrilaterals	<b>X.9</b> Classify quadrilaterals >>
<b>13.5:</b> Problem Solving: Line Symmetry	<b>Y.1</b> Identify lines of symmetry >>
<b>13.6:</b> Find and Draw Lines of Symmetry	

# Module 14

## Measure Angles

Textbook section	IXL skills
<b>14.1:</b> Angles and Fractional Parts of a Circle	
<b>14.2:</b> Degrees	<b>Z.2</b> Angles of 90, 180, 270, and 360 degrees >>
<b>14.3:</b> Measure and Draw Angles	<b>Z.3</b> Measure angles with a protractor >>
<b>14.4:</b> Join and Separate Angles	<b>Z.5</b> Adjacent angles >>
<b>14.5:</b> Problem Solving: Unknown Angle Measures	



# Module 15

## Customary and Metric Measures

Textbook section	IXL skills
<b>15.1:</b> Measurement Benchmarks	<p><b>N.2</b> Which customary unit is appropriate? &gt;&gt;</p> <p><b>N.11</b> Which metric unit is appropriate? &gt;&gt;</p>
<b>15.2:</b> Customary Units of Length	<b>N.3</b> Compare and convert customary units of length >>
<b>15.3:</b> Customary Units of Weight	<b>N.4</b> Compare and convert customary units of weight >>
<b>15.4:</b> Customary Units of Liquid Volume	<p><b>N.5</b> Compare and convert customary units of volume &gt;&gt;</p> <p><i>See also:</i></p> <p><b>N.6</b> Compare and convert customary units &gt;&gt;</p> <p><b>N.7</b> Conversion tables - customary units &gt;&gt;</p> <p><b>N.8</b> Compare customary units by multiplying &gt;&gt;</p>
<b>15.5:</b> Mixed Measures	<p><b>N.9</b> Convert mixed customary units &gt;&gt;</p> <p><b>N.10</b> Add and subtract mixed customary units &gt;&gt;</p>
<b>15.6:</b> Metric Units of Length	<b>N.12</b> Compare and convert metric units of length >>
<b>15.7:</b> Problem Solving: Metric Units of Mass and Liquid Volume	<p><b>N.13</b> Compare and convert metric units of weight &gt;&gt;</p> <p><b>N.14</b> Compare and convert metric units of volume &gt;&gt;</p> <p><i>See also:</i></p> <p><b>N.15</b> Compare and convert metric units &gt;&gt;</p> <p><b>N.16</b> Conversion tables - metric units &gt;&gt;</p>

# Module 16

## Time and Money

Textbook section	IXL skills
<b>16.1:</b> Units of Time	<b>O.1</b> Convert time units >>
<b>16.2:</b> Problem Solving: Elapsed Time	<b>O.5</b> Elapsed time >>
	<b>O.6</b> Elapsed time: word problems >>
	<i>See also:</i> <b>O.7</b> Find start and end times: multi-step word problems >>
<b>16.3:</b> Add and Subtract Money	<b>M.4</b> Add and subtract money amounts >>
<b>16.4:</b> Multiply and Divide Money	<b>M.5</b> Add, subtract, multiply, and divide money amounts >>

# Module 17

## Represent and Interpret Data

Textbook section	IXL skills
<b>17.1:</b> Frequency Tables	
<b>17.2:</b> Use Frequency Tables	<b>J.9</b> <a href="#">Frequency charts &gt;&gt;</a>
<b>17.3:</b> Problem Solving: Dot Plots	<b>J.7</b> <a href="#">Create line plots &gt;&gt;</a>
<b>17.4:</b> Use Dot Plots	<b>J.6</b> <a href="#">Interpret line plots &gt;&gt;</a> <b>J.8</b> <a href="#">Create and interpret line plots with fractions &gt;&gt;</a>
<b>17.5:</b> Stem-and-Leaf Plots	
<b>17.6:</b> Use Stem-and-Leaf Plots	<b>J.10</b> <a href="#">Stem-and-leaf plots &gt;&gt;</a>

# Module 18

## Financial Literacy

Textbook section	IXL skills
<b>18.1:</b> Fixed and Variable Expenses	
<b>18.2:</b> Find Profit	
<b>18.3:</b> Problem Solving: Saving Options	
<b>18.4:</b> Budget a Weekly Allowance	
<b>18.5:</b> Financial Institutions	