



# IXL Skill Alignment

3rd grade alignment for enVisionMATH 2.0 Common Core Edition



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# Topic 1

## Understand Multiplication and Division of Whole Numbers

Textbook section	IXL skills
<b>Lesson 1-1:</b> Multiplication as Repeated Addition	<ol style="list-style-type: none"> <li>1. Count equal groups 9K7</li> <li>2. Relate addition and multiplication for equal groups GGC</li> <li>3. Relate addition and multiplication P74</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Identify multiplication expressions for equal groups 9AE</li> <li>• Write multiplication sentences for equal groups V98</li> </ul>
<b>Lesson 1-2:</b> Multiplication on the Number Line	<ol style="list-style-type: none"> <li>1. Write multiplication sentences for number lines NTV</li> </ol>
<b>Lesson 1-3:</b> Arrays and Multiplication	<ol style="list-style-type: none"> <li>1. Identify multiplication expressions for arrays HZL</li> <li>2. Write multiplication sentences for arrays 5FZ</li> <li>3. Make arrays to model multiplication PPR</li> </ol>
<b>Lesson 1-4:</b> The Commutative Property	
<b>Lesson 1-5:</b> Division as Sharing	<ol style="list-style-type: none"> <li>1. Divide by counting equal groups UYK</li> <li>2. Write division sentences for groups FSX</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Write division sentences for arrays 8RW</li> </ul>
<b>Lesson 1-6:</b> Division as Repeated Subtraction	<ol style="list-style-type: none"> <li>1. Divide using repeated subtraction V5C</li> </ol>
<b>Lesson 1-7:</b> Use Appropriate Tools	<ol style="list-style-type: none"> <li>1. Multiplication and division word problems: factors up to 5 7HS</li> </ol>

## Topic 2

### Multiplication Facts: Use Patterns

Textbook section	IXL skills
<b>Lesson 2-1:</b> 2 and 5 as Factors	<ol style="list-style-type: none"><li>1. Multiply by 2 94M</li><li>2. Multiply by 5 Y9E</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Skip-counting LQM</li></ul>
<b>Lesson 2-2:</b> 9 as a Factor	<ol style="list-style-type: none"><li>1. Multiply by 9 SUH</li></ol>
<b>Lesson 2-3:</b> Apply Properties: Multiply by 0 and 1	<ol style="list-style-type: none"><li>1. Multiply by 1 and 0 CNG</li></ol>
<b>Lesson 2-4:</b> Multiply by 10	<ol style="list-style-type: none"><li>1. Multiply by 10 6YD</li><li>2. Multiplication facts for 1, 2, 5, 9, and 10: find the missing factor 7FN</li></ol>
<b>Lesson 2-5:</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10	<ol style="list-style-type: none"><li>1. Multiply by 0, 1, 2, 5, 9, and 10 YZX</li></ol>
<b>Lesson 2-6:</b> Model with Math	<ol style="list-style-type: none"><li>1. Multiplication word problems: factors up to 5 HDU</li></ol>

## Topic 3

### Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8

Textbook section	IXL skills
<b>Lesson 3-1:</b> The Distributive Property	1. Distributive property: fill in the missing number 7UP
<b>Lesson 3-2:</b> Apply Properties: 3 as a Factor	1. Multiply by 3 38K
<b>Lesson 3-3:</b> Apply Properties: 4 as a Factor	1. Multiply by 4 5U6 2. Multiplication tables for 2, 3, 4, 5, and 10 DW5  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiplication facts for 2, 3, 4, 5, and 10: true or false? 87M</li> <li>Multiplication facts for 2, 3, 4, 5, and 10: sorting REN</li> <li>Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY</li> </ul>
<b>Lesson 3-4:</b> Apply Properties: 6 and 7 as Factors	1. Multiply by 6 SX6 2. Multiply by 7 9PT
<b>Lesson 3-5:</b> Apply Properties: 8 as a Factor	1. Multiply by 8 SMR 2. Multiplication tables for 6, 7, 8, and 9 XT7  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiplication facts for 6, 7, 8, and 9: true or false? EEY</li> <li>Multiplication facts for 6, 7, 8, and 9: sorting TZ7</li> <li>Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N</li> </ul>
<b>Lesson 3-6:</b> Practice Multiplication Facts	1. Multiplication tables up to 10 PNV  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiplication facts up to 10: sorting SUJ</li> </ul>
<b>Lesson 3-7:</b> The Associative Property: Multiply with 3 Factors	1. Multiply three numbers 9DF 2. Multiply three numbers: word problems S7B



**Lesson 3-8:** Repeated Reasoning

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# Topic 4

## Use Multiplication to Divide: Division Facts

Textbook section	IXL skills
<b>Lesson 4-1:</b> Relate Multiplication and Division	<ol style="list-style-type: none"> <li>1. Relate multiplication and division for arrays XSK</li> <li>2. Relate multiplication and division 67L</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Relate multiplication and division for groups FTU</li> </ul>
<b>Lesson 4-2:</b> Use Multiplication to Divide with 2, 3, 4, and 5	<ol style="list-style-type: none"> <li>1. Divide by 2 ANU</li> <li>2. Divide by 3 PCL</li> <li>3. Divide by 4 QGT</li> <li>4. Divide by 5 C9M</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Multiplication and division facts up to 5: true or false? 6HS</li> <li>• Addition, subtraction, multiplication, and division terms E58</li> </ul>
<b>Lesson 4-3:</b> Use Multiplication to Divide with 6 and 7	<ol style="list-style-type: none"> <li>1. Divide by 6 97S</li> <li>2. Divide by 7 D2F</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Division facts for 2, 3, 4, 5, and 10: true or false? YSD</li> <li>• Division facts for 2, 3, 4, 5, and 10: sorting XDN</li> </ul>
<b>Lesson 4-4:</b> Use Multiplication to Divide with 8 and 9	<ol style="list-style-type: none"> <li>1. Divide by 8 CVD</li> <li>2. Divide by 9 RTB</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Divide by 10 YRG</li> <li>• Division facts for 6, 7, 8, and 9: true or false? DBB</li> <li>• Division facts for 6, 7, 8, and 9: sorting KQR</li> </ul>

**Lesson 4-5:** Multiplication Patterns: Even and Odd Numbers

1. Even or odd U9Q
2. Even or odd: multiplication patterns WS2

**Lesson 4-6:** Division Involving 0 and 1

1. Divide by 1 VTL

*Also consider*

- Multiply and divide with 1 and 0 XWR

**Lesson 4-7:** Practice Multiplication and Division Facts

1. Division facts up to 10 M8T
2. Multiplication and division word problems 85K

*Also consider*

- Multiplication and division facts up to 10: true or false? WQT

**Lesson 4-8:** Solve Multiplication and Division Equations

1. Multiplication and division facts up to 10: find the missing number 88D

**Lesson 4-9:** Make Sense and Persevere

1. Multiplication word problems: find the missing factor F6C

## Topic 5

### Fluently Multiply and Divide within 100

Textbook section	IXL skills
<b>Lesson 5-1:</b> Patterns for Multiplication Facts	1. Multiply by 2, 4, 6, 8 and 10 FKS
<b>Lesson 5-2:</b> Use a Multiplication Table	1. Multiplication facts up to 10: find the missing factor FZA 2. Division facts up to 10: true or false? MPV
<b>Lesson 5-3:</b> Find Missing Numbers in a Multiplication Table	1. Multiplication facts up to 10: select the missing factors WZA  <i>Also consider</i> • Division facts up to 10: select the missing numbers FPA
<b>Lesson 5-4:</b> Use Strategies to Multiply	1. Multiplication facts up to 10: true or false? 3K8  <i>Also consider</i> • Multiply by 11 AZJ • Multiply 1-digit numbers by teen numbers using grids 8XQ
<b>Lesson 5-5:</b> Solve Word Problems: Multiplication and Division Facts	1. Multiplication word problems 9TA 2. Division word problems: divisors and quotients up to 5 CFR
<b>Lesson 5-6:</b> Write Math Stories: Multiplication	
<b>Lesson 5-7:</b> Write Math Stories: Division	1. Division word problems ECS
<b>Lesson 5-8:</b> Look For and Use Structure	1. Multiplication sentences up to 10: true or false? MTU 2. Inequalities with multiplication DVE  <i>Also consider</i> • Solve using properties of multiplication YPF



# Topic 6

## Connect Area to Multiplication and Addition

Textbook section	IXL skills
<b>Lesson 6-1:</b> Cover Regions	1. Find the area of figures made of unit squares FLQ  <i>Also consider</i> <ul style="list-style-type: none"> <li>Create figures with a given area Z2H</li> </ul>
<b>Lesson 6-2:</b> Area: Nonstandard Units	1. Tile a rectangle and find the area EKK  <i>Also consider</i> <ul style="list-style-type: none"> <li>Create rectangles with a given area V73</li> </ul>
<b>Lesson 6-3:</b> Area: Standard Units	1. Select figures with a given area XR6  <i>Also consider</i> <ul style="list-style-type: none"> <li>Select two figures with the same area 7GW</li> <li>Area of figures on grids J93</li> </ul>
<b>Lesson 6-4:</b> Area of Squares and Rectangles	1. Find the area of rectangles and squares 8KJ 2. Find the missing side length of a rectangle X66 3. Find the area of rectangles: word problems 5HA  <i>Also consider</i> <ul style="list-style-type: none"> <li>Multiply to find the area of a rectangle made of unit squares S7G</li> </ul>
<b>Lesson 6-5:</b> Apply Properties: Area and the Distributive Property	
<b>Lesson 6-6:</b> Apply Properties: Area of Irregular Shapes	1. Find the areas of complex figures by dividing them into rectangles DVB 2. Find the area of complex figures SGP
<b>Lesson 6-7:</b> Look For and Use Structure	1. Find the area of rectangles with missing unit squares KTN 2. Find the area between two rectangles KH6

# Topic 7

## Represent and Interpret Data

Textbook section	IXL skills
<b>Lesson 7-1:</b> Read Picture Graphs and Bar Graphs	<ol style="list-style-type: none"><li>1. Interpret pictographs Y5D</li><li>2. Interpret bar graphs V54</li></ol>
<b>Lesson 7-2:</b> Make Picture Graphs	<ol style="list-style-type: none"><li>1. Create pictographs AVG</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Interpret tally charts 8CW</li></ul>
<b>Lesson 7-3:</b> Make Bar Graphs	<ol style="list-style-type: none"><li>1. Create bar graphs RPF</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Create bar graphs: multi-digit numbers WYL</li><li>• Interpret bar graphs: multi-digit numbers UP6</li></ul>
<b>Lesson 7-4:</b> Solve Word Problems Using Information in Graphs	<ol style="list-style-type: none"><li>1. Use bar graphs to solve problems BCJ</li></ol>
<b>Lesson 7-5:</b> Precision	<ol style="list-style-type: none"><li>1. Interpret bar graphs: two-step problems TLZ</li></ol>

# Topic 8

## Use Strategies and Properties to Add and Subtract

Textbook section	IXL skills
<b>Lesson 8-1:</b> Addition Properties	<ol style="list-style-type: none"> <li>1. Properties of addition NY2</li> <li>2. Complete the equation using properties of addition CGS</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Add using properties KYA</li> </ul>
<b>Lesson 8-2:</b> Algebra: Addition Patterns	<ol style="list-style-type: none"> <li>1. Even or odd: addition patterns FYF</li> </ol>
<b>Lesson 8-3:</b> Round Whole Numbers	<ol style="list-style-type: none"> <li>1. Round using a number line - nearest ten or hundred 6ST</li> <li>2. Rounding - nearest ten or hundred only Q65</li> </ol>
<b>Lesson 8-4:</b> Mental Math: Addition	<ol style="list-style-type: none"> <li>1. Add two numbers up to three digits using place value BMH</li> </ol>
<b>Lesson 8-5:</b> Mental Math: Subtraction	<ol style="list-style-type: none"> <li>1. Subtract numbers up to three digits EHT</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Balance subtraction equations: up to three digits 8VK</li> </ul>
<b>Lesson 8-6:</b> Estimate Sums	<ol style="list-style-type: none"> <li>1. Estimate sums up to 1,000 3Y9</li> <li>2. Estimate sums: word problems WB2</li> <li>3. Use compatible numbers to estimate sums HRT</li> </ol>
<b>Lesson 8-7:</b> Estimate Differences	<ol style="list-style-type: none"> <li>1. Estimate differences up to 1,000 A47</li> <li>2. Estimate differences: word problems M42</li> </ol>
<b>Lesson 8-8:</b> Relate Addition and Subtraction	<ol style="list-style-type: none"> <li>1. Complete the addition sentence: up to three digits D69</li> <li>2. Complete the subtraction sentence: up to three digits MD8</li> </ol>
<b>Lesson 8-9:</b> Model with Math	<ol style="list-style-type: none"> <li>1. Addition and subtraction word problems - up to 100 V7P</li> </ol>

# Topic 9

## Fluently Add and Subtract within 1,000

Textbook section	IXL skills
<b>Lesson 9-1:</b> Use Partial Sums to Add	<ol style="list-style-type: none"> <li>1. Use models to add three-digit numbers: without regrouping ZBB</li> </ol>
<b>Lesson 9-2:</b> Add 3-Digit Numbers	<ol style="list-style-type: none"> <li>1. Use models to add three-digit numbers: with regrouping NWW</li> <li>2. Add three-digit numbers: without regrouping 96M</li> <li>3. Add three-digit numbers: with regrouping 9NH</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Addition up to three digits: fill in the missing digits LYB</li> </ul>
<b>Lesson 9-3:</b> Continue to Add 3-Digit Numbers	<ol style="list-style-type: none"> <li>1. Add two numbers up to three digits E83</li> <li>2. Add two numbers up to three digits: word problems QU2</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Addition input/output tables: up to three digits MUE</li> </ul>
<b>Lesson 9-4:</b> Add 3 or More Numbers	<ol style="list-style-type: none"> <li>1. Add three numbers up to three digits each GSY</li> <li>2. Add three numbers up to three digits each: word problems NPU</li> </ol>
<b>Lesson 9-5:</b> Use Partial Differences to Subtract	<ol style="list-style-type: none"> <li>1. Subtract three-digit numbers: without regrouping NVN</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Subtraction input/output tables: up to three digits J9S</li> </ul>
<b>Lesson 9-6:</b> Subtract 3-Digit Numbers	<ol style="list-style-type: none"> <li>1. Subtract three-digit numbers: regroup tens and hundreds WR8</li> </ol>

**Lesson 9-7:** Continue to Subtract 3-Digit Numbers

1. Subtract numbers up to three digits: with regrouping UPT
2. Subtract across zeros 93U
3. Subtract numbers up to three digits: word problems K88

*Also consider*

- Subtraction: fill in the missing digits V63
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**Lesson 9-8:** Construct Arguments

1. Addition and subtraction word problems XSH

*Also consider*

- Add and subtract three-digit numbers 2TD
  - Find two numbers based on sum and difference 9Z7
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# Topic 10

## Multiply by Multiples of 10

Textbook section	IXL skills
<b>Lesson 10-1:</b> Use an Open Number Line to Multiply	1. Multiply by a multiple of ten MS6
<b>Lesson 10-2:</b> Use Properties to Multiply	
<b>Lesson 10-3:</b> Multiply by Multiples of 10	
<b>Lesson 10-4:</b> Look For and Use Structure	1. Interpret pictographs: multiples of 10 SYC

# Topic 11

## Use Operations with Whole Numbers to Solve Problems

Textbook section	IXL skills
<b>Lesson 11-1:</b> Solve 2-Step Word Problems: Addition and Subtraction	1. Two-step addition and subtraction word problems CBA
<b>Lesson 11-2:</b> Solve 2-Step Word Problems: Multiplication and Division	1. Two-step multiplication and division word problems 8FP  <i>Also consider</i> • Write variable equations to represent word problems: multiplication and division only ZNN
<b>Lesson 11-3:</b> Solve 2-Step Word Problems: All Operations	1. Two-step mixed operation word problems SRL  <i>Also consider</i> • Write variable equations to represent word problems U6P
<b>Lesson 11-4:</b> Critique Reasoning	1. Two-step word problems: identify reasonable answers V5A

# Topic 12

## Understand Fractions as Numbers

Textbook section	IXL skills
<b>Lesson 12-1:</b> Divide Regions into Equal Parts	<ol style="list-style-type: none"> <li>1. Identify equal parts FHY</li> <li>2. Make halves, thirds, fourths, sixths, and eighths JHE</li> <li>3. Match unit fractions to models CPK</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Unit fractions: modeling word problems UV8</li> </ul>
<b>Lesson 12-2:</b> Fractions and Regions	<ol style="list-style-type: none"> <li>1. Understand fractions: area models RTW</li> <li>2. Show fractions: area models NLE</li> <li>3. Match fractions to models YHL</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Understand fractions: fraction bars 6JL</li> <li>• Show fractions: fraction bars ZPW</li> </ul>
<b>Lesson 12-3:</b> Understand the Whole	<ol style="list-style-type: none"> <li>1. Fractions of a whole: modeling word problems 9PU</li> </ol>
<b>Lesson 12-4:</b> Number Line: Fractions Less Than 1	<ol style="list-style-type: none"> <li>1. Graph unit fractions on number lines CBW</li> <li>2. Identify fractions on number lines AWH</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Fractions of number lines PYB</li> </ul>
<b>Lesson 12-5:</b> Number Line: Fractions Greater Than 1	<ol style="list-style-type: none"> <li>1. Graph fractions on number lines 7QM</li> </ol>
<b>Lesson 12-6:</b> Line Plots and Length	<ol style="list-style-type: none"> <li>1. Measure using an inch ruler: nearest <math>\frac{1}{4}</math> inch 5R3</li> <li>2. Create line plots with fractions YUR</li> </ol>
<b>Lesson 12-7:</b> More Line Plots and Length	<ol style="list-style-type: none"> <li>1. Measure using an inch ruler LC2</li> <li>2. Create line plots with halves 6RC</li> </ol>





**Lesson 12-8:** Make Sense and Persevere

1. Fractions of a whole: word problems BV7

*Also consider*

- Unit fractions: word problems HM7
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# Topic 13

## Fraction Equivalence and Comparison

Textbook section	IXL skills
<b>Lesson 13-1:</b> Equivalent Fractions: Use Models	<ol style="list-style-type: none"> <li>1. Find equivalent fractions using area models: two models ZJ2</li> <li>2. Identify equivalent fractions 7DA</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Find equivalent fractions using area models: one model 6DY</li> </ul>
<b>Lesson 13-2:</b> Equivalent Fractions: Use the Number Line	<ol style="list-style-type: none"> <li>1. Identify equivalent fractions on number lines HYM</li> <li>2. Find equivalent fractions using number lines JL8</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Graph equivalent fractions on number lines WPQ</li> <li>• Find equivalent fractions WMX</li> </ul>
<b>Lesson 13-3:</b> Use Models to Compare Fractions: Same Denominator	<ol style="list-style-type: none"> <li>1. Compare fractions with like denominators using models TDE</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Graph and compare fractions with like denominators on number lines 63U</li> <li>• Compare fractions with like denominators 8SU</li> <li>• Order fractions with like denominators HYZ</li> </ul>
<b>Lesson 13-4:</b> Use Models to Compare Fractions: Same Numerator	<ol style="list-style-type: none"> <li>1. Compare fractions with like numerators using models RGM</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Compare unit fractions HVV</li> <li>• Graph and compare fractions with like numerators on number lines ZPD</li> <li>• Compare fractions with like numerators 7LX</li> <li>• Order fractions with like numerators PCW</li> </ul>

**Lesson 13-5:** Compare Fractions: Use Benchmarks

1. Compare fractions 78D
2. Compare fractions using benchmarks D8B

*Also consider*

- Benchmark fractions EEU
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**Lesson 13-6:** Compare Fractions: Use the Number Line

1. Compare fractions using number lines 38T
2. Graph and compare fractions on number lines 6H5

*Also consider*

- Graph and order fractions on number lines T7E
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**Lesson 13-7:** Whole Numbers and Fractions

1. Graph fractions equivalent to 1 on number lines 7BL
2. Find fractions equivalent to whole numbers CPZ

*Also consider*

- Select fractions equivalent to whole numbers using area models GKZ
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**Lesson 13-8:** Construct Arguments

1. Compare proper fractions in recipes 6BN
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# Topic 14

## Solve Time, Capacity, and Mass Problems

Textbook section	IXL skills
<b>Lesson 14-1:</b> Time to the Minute	<ol style="list-style-type: none"> <li>1. Read clocks and write times 5ZQ</li> <li>2. Write times EQS</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Match clocks and times LPT</li> <li>• Match analog and digital clocks L5U</li> </ul>
<b>Lesson 14-2:</b> Units of Time: Measure Elapsed Time	<ol style="list-style-type: none"> <li>1. Find the elapsed time SCQ</li> <li>2. Elapsed time word problems: find the elapsed time V9D</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Elapsed time: find the end time U7B</li> </ul>
<b>Lesson 14-3:</b> Units of Time: Solve Word Problems	<ol style="list-style-type: none"> <li>1. Elapsed time word problems: find the end time 5VC</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>• Time patterns 7VM</li> </ul>
<b>Lesson 14-4:</b> Estimate Liquid Volume	<ol style="list-style-type: none"> <li>1. Which metric unit of volume is appropriate? LYS</li> </ol>
<b>Lesson 14-5:</b> Measure Liquid Volume	<ol style="list-style-type: none"> <li>1. Compare and convert metric units of volume RK2</li> </ol>
<b>Lesson 14-6:</b> Estimate Mass	<ol style="list-style-type: none"> <li>1. Which metric unit of weight is appropriate? PTF</li> <li>2. Choose the appropriate measuring tool FTA</li> </ol>
<b>Lesson 14-7:</b> Measure Mass	<ol style="list-style-type: none"> <li>1. Compare and convert metric units of weight C9Z</li> </ol>
<b>Lesson 14-8:</b> Solve Word Problems Involving Mass and Liquid Volume	<ol style="list-style-type: none"> <li>1. Measurement word problems VPW</li> </ol>
<b>Lesson 14-9:</b> Reasoning	<ol style="list-style-type: none"> <li>1. Find start and end times: two-step word problems C95</li> </ol>

# Topic 15

## Attributes of Two-Dimensional Shapes

### Textbook section

### IXL skills

**Lesson 15-1:** Describe Quadrilaterals

1. Identify rectangles 47T
2. Identify parallelograms V6L
3. Identify rhombuses ZSD
4. Identify trapezoids 67A

*Also consider*

- Is it a polygon? C2P

**Lesson 15-2:** Classify Shapes

1. Classify quadrilaterals CNJ

*Also consider*

- Count and compare sides and vertices GWA
- Parallel sides in quadrilaterals 6E9
- Angles greater than, less than, or equal to a right angle 2YR

**Lesson 15-3:** Analyze and Compare Quadrilaterals**Lesson 15-4:** Precision

1. Draw quadrilaterals 5KS

# Topic 16

## Solve Perimeter Problems

Textbook section	IXL skills
<b>Lesson 16-1:</b> Understand Perimeter	<ol style="list-style-type: none"> <li>Perimeter of figures on grids TQP</li> <li>Perimeter of rectilinear shapes 65Z</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Perimeter of rectangles ZJT</li> </ul>
<b>Lesson 16-2:</b> Perimeter of Common Shapes	<ol style="list-style-type: none"> <li>Find the perimeter of rectangles and squares: use properties AT2</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Perimeter of polygons LLY</li> <li>Perimeter: word problems PCZ</li> </ul>
<b>Lesson 16-3:</b> Perimeter and Unknown Side Lengths	<ol style="list-style-type: none"> <li>Perimeter: find the missing side length T2V</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Find the missing side length of a rectangle: word problems DKC</li> </ul>
<b>Lesson 16-4:</b> Same Perimeter, Different Area	<ol style="list-style-type: none"> <li>Relationship between area and perimeter: find the area KNR</li> </ol>
<b>Lesson 16-5:</b> Same Area, Different Perimeter	<ol style="list-style-type: none"> <li>Create rectangles and squares with a given area XWE</li> <li>Relationship between area and perimeter: find the perimeter ZWF</li> <li>Compare area and perimeter of two figures PMF</li> </ol>
<b>Lesson 16-6:</b> Reasoning	<ol style="list-style-type: none"> <li>Perimeter: word problems CLD</li> </ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"> <li>Use area and perimeter to determine cost 8H8</li> </ul>