



IXL Skill Alignment

4th grade alignment for Bridges[®] in Mathematics



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Unit 1

Multiplicative Thinking

Module 1: Models for Multiplication and Division

Textbook section	IXL skills
Session 1	<ol style="list-style-type: none"> 1. Multiplication word problems: factors up to 10 86C 2. Multiplication facts to 12 FW9
Session 2	<ol style="list-style-type: none"> 1. Write multiplication sentences for number lines 77W
Session 3	<ol style="list-style-type: none"> 1. Multiplication input/output tables BEP
Session 4	<ol style="list-style-type: none"> 1. Write multiplication sentences for arrays 5PJ 2. Make arrays to model multiplication HQK
Session 5	<ol style="list-style-type: none"> 1. Write division sentences for arrays 8QG
Session 6	<ol style="list-style-type: none"> 1. Relate multiplication and division for arrays CKG 2. Multiplication facts up to 12: find the missing factor 76F

Module 2: Primes and Composites

Textbook section	IXL skills
Session 1	<ol style="list-style-type: none"> 1. Identify factors 2S9 2. Find all the factor pairs of a number URL
Session 2	<ol style="list-style-type: none"> 1. Prime and composite: up to 20 TNF 2. Prime and composite: up to 100 L9R
Session 3	<ol style="list-style-type: none"> 1. Multiplication tables for 2, 3, 4, 5, and 10 38G
Session 4	<ol style="list-style-type: none"> 1. Multiplication tables for 6, 7, 8, and 9 Z5E

Session 5

1. Multiply by 6 WHF
2. Choose the multiples of a given number up to 10 EFB

Session 6

1. Multiply by 8 KS8
2. Multiply by 9 RT7

Module 3: Multiplicative Comparisons and Equations

Textbook section	IXL skills
Session 1	1. Choose numbers with a particular product U9N
Session 2	1. Choose the multiples of a given number up to 12 ENC
Session 3	1. Compare numbers using multiplication GGE
Session 4	1. Compare numbers using multiplication: word problems QKB
Session 5	1. Comparison word problems: addition or multiplication? YCW

Module 4: Measurement Experiences

Textbook section	IXL skills
Session 1	1. Measuring using a centimeter ruler K5W
Session 2	<ol style="list-style-type: none"> 1. Which customary unit of weight is appropriate? NM6 2. Which metric unit of weight is appropriate? 4W9
Session 3	<ol style="list-style-type: none"> 1. Which customary unit of volume is appropriate? GPW 2. Which metric unit of volume is appropriate? UJW

Unit 2

Multi-Digit Multiplication and Early Division

Module 1: Building Multiplication Arrays

Textbook section	IXL skills
Session 1	1. Place value models 2Y7
Session 2	1. Relationship between place values KFD
Session 3	1. Area of rectangles F2G
Session 4	1. Division facts up to 12: find the missing number NU8
Session 5	1. Multiply 1-digit numbers by teen numbers using grids 8UH

Module 2: Arrays and Ratio Tables

Textbook section	IXL skills
Session 1	1. Multiply 1-digit numbers by small 2-digit numbers using area models I D8H
Session 2	1. Multiply 1-digit numbers by small 2-digit numbers using area models II 5FP
Session 3	1. Multiply by 10 or 100 M2N
Session 4	1. Multiplication input/output tables: find the rule KQG
Session 5	1. Multiply by a multiple of ten B9Y

Module 3: Multiplication Stories and Strategies

Textbook section	IXL skills
Session 1	1. Multiply 1-digit numbers by 2-digit numbers using area models I VCM
Session 2	1. Multiply 1-digit numbers by 2-digit numbers using area models II HZX
Session 3	
Session 4	1. Count coins and bills word problems - up to \$20 bill NRY 2. Conversion tables: metric units of mass and capacity WZY
Session 5	1. Use compensation to multiply 1-digit numbers by 2-digit numbers 5C8

Module 4: Early Division with Remainders

Textbook section	IXL skills
Session 1	1. Divide 2-digit numbers by 1-digit numbers using arrays M49
Session 2	1. One-step word problems involving remainders PYQ
Session 3	1. Divide 2-digit numbers by 1-digit numbers: quotients up to 10 7BS
Session 4	1. Multiply three or more numbers E66
Session 5	1. Divide 2-digit numbers by 1-digit numbers: interpret remainders 5WV

Unit 3

Fractions and Decimals

Module 1: Equivalent Fractions

Textbook section	IXL skills
Session 1	<ol style="list-style-type: none"> 1. Fractions review YPL 2. Fractions of a whole: word problems XSB
Session 2	<ol style="list-style-type: none"> 1. Decompose fractions into unit fractions using models QG2
Session 3	<ol style="list-style-type: none"> 1. Decompose fractions into unit fractions XHG 2. Convert between improper fractions and mixed numbers JFE
Session 4	<ol style="list-style-type: none"> 1. Graph and compare fractions with like numerators or denominators on number lines 9XF 2. Benchmark fractions LUS
Session 5	<ol style="list-style-type: none"> 1. Find equivalent fractions using area models HYC 2. Identify equivalent fractions GSG
Session 6	<ol style="list-style-type: none"> 1. Patterns of equivalent fractions 7LH

Module 2: Comparing, Composing and Decomposing Fractions and Mixed Numbers

Textbook section	IXL skills
Session 1	<ol style="list-style-type: none"> 1. Decompose fractions into unit fractions using models QG2 2. Decompose fractions multiple ways UEW
Session 2	<ol style="list-style-type: none"> 1. Compare fractions with like numerators or denominators M8E 2. Add fractions with like denominators using strip models Z63

Session 3

1. Add and subtract fractions with like denominators using number lines GAK
2. Add and subtract fractions with like denominators FXD

Session 4

1. Add fractions with unlike denominators using models 6PM

Session 5

1. Multiply fractions by whole numbers using number lines Q7B

Session 6

1. Add and subtract fractions with like denominators: word problems XBR

Module 3: Introducing Decimals**Textbook section****IXL skills****Session 1**

1. What decimal number is illustrated? B7E
2. Model decimals and fractions TPV

Session 2

1. Compare decimals using models CV7

Session 3

1. Fractions with denominators of 10 and 100 VLP
2. Add fractions: denominators 10 and 100 9RJ

Session 4

1. Compare decimal numbers DY5

Module 4: Fractions and Decimals**Textbook section****IXL skills****Session 1**

1. Graph fractions as decimals on number lines 2N9
2. Convert fractions and mixed numbers to decimals - denominators of 10 and 100 6P7

Session 2

1. Convert fractions and mixed numbers to decimals 5GT

Session 3

1. Compare decimals and fractions on number lines 8YG
2. Compare decimals and fractions TB7



Session 4

1. Put decimal numbers in order I LVX

Unit 4

Addition, Subtraction, and Measurement

Module 1: Place Value and the Traditional Addition Algorithm

Textbook section	IXL skills
Session 1	1. Add two numbers up to three digits: word problems M8W
Session 2	1. Round to the nearest ten, hundred, or thousand 97B
Session 3	1. Convert between standard and expanded form: up to 1,000,000 4R6 2. Naming numbers up to one million 6QE
Session 4	1. Estimate sums: numbers up to three digits Z8X 2. Balance addition equations NZS
Session 5	1. Add two numbers up to five digits RG2
Session 6	1. Add two numbers up to five digits: word problems ZPY
Session 7	1. Choose numbers with a particular sum P5U

Module 2: The Traditional Subtraction Algorithm

Textbook section	IXL skills
Session 1	1. Subtract two numbers up to three digits: word problems 6SZ
Session 2	1. Balance subtraction equations DCB
Session 3	1. Subtract numbers up to five digits VP2
Session 4	1. Subtract numbers up to five digits: word problems R9N
Session 5	1. Choose numbers with a particular difference XEV

Module 3: Measurement

Textbook section	IXL skills
Session 1	1. Measurement word problems 2PY
Session 2	1. Compare and convert metric units of length GZM
Session 3	1. Elapsed time: word problems VCC 2. Find start and end times: multi-step word problems ZQP
Session 4	1. Compare and convert metric units of volume FHV
Session 5	1. Compare and convert metric units of weight 7RC 2. Compare and convert customary units of weight LJV 3. Conversion tables - metric units YTJ

Module 4: Measurement and Data Displays

Textbook section	IXL skills
Session 1	1. Measure using an inch ruler EDW 2. Find the range 7EE
Session 2	1. Interpret line plots to find the median QXH 2. Interpret line plots to find the mode F2H
Session 3	1. Create and interpret line plots with fractions QQB

Unit 5

Geometry and Measurement

Module 1: Measuring Angles

Textbook section	IXL skills
Session 1	1. Points, lines, line segments, rays, and angles 9MK
Session 2	1. Acute, right, obtuse, and straight angles R5K
Session 3	1. Angles as fractions of a circle N72 2. Angles of 90, 180, 270, and 360 degrees UQV
Session 4	1. Adjacent angles VJY
Session 5	1. Parts of a circle 9C4
Session 6	1. Measure angles with a protractor NCN

Module 2: Polygons and Symmetry

Textbook section	IXL skills
Session 1	1. Parallel, perpendicular, and intersecting lines 8VQ
Session 2	1. Identify parallel, perpendicular, and intersecting lines DSU
Session 3	1. Identify lines of symmetry 9FD 2. Draw lines of symmetry SQF
Session 4	1. Number of sides in polygons LHR 2. Classify triangles U59 3. Identify parallelograms DJ9
Session 5	1. Parallel sides in quadrilaterals 58M 2. Classify quadrilaterals A6V

Session 6

1. Pick all the names for a quadrilateral 6CT
2. Draw quadrilaterals L5Y

Module 3: Area and Perimeter**Textbook section****IXL skills****Session 1**

1. Perimeter of polygons HLW

Session 2

1. Create rectangles with a given area BMV

Session 3

1. Find the perimeter of rectangles using formulas KGJ
2. Area: word problems JW7

Session 4

1. Area of complex figures (with all right angles) 38W

Module 4: Angles in Motion**Textbook section****IXL skills****Session 1**

1. Use fractions to find the measure of an angle Q68

Session 2

1. Measure angles on a circle RK8

Session 3

1. Angle measures: word problems YUA

Unit 6

Multiplication & Division, Data & Fractions

Module 1: Multiplication and Division Strategies

Textbook section	IXL skills
Session 1	1. Divide using repeated subtraction CCY
Session 2	1. Divide 2-digit numbers by 1-digit numbers using area models 7LG
Session 3	1. Divide using the distributive property GDX 2. Divide 2-digit numbers by 1-digit numbers 4T7
Session 4	1. Multiply 1-digit numbers by 2-digit numbers using the distributive property M9J
Session 5	1. Multiply 2-digit numbers by 2-digit numbers using the distributive property 7ST
Session 6	1. Use one multiplication fact to complete another W6D
Session 7	1. Estimate products word problems: identify reasonable answers KLA

Module 2: Revisiting Area and Perimeter

Textbook section	IXL skills
Session 1	1. Find the area or missing side length of a rectangle 9E6
Session 2	1. Perimeter: find the missing side length QAC
Session 3	1. Perimeter: word problems GBE
Session 4	1. Compare area and perimeter of two figures S7Y
Session 5	1. Relationship between area and perimeter SKK

Module 3: Line Plots, Fractions & Division

Textbook section	IXL skills
Session 1	1. Elapsed time TUH
Session 2	1. Interpret line plots to find the mean, median, mode, or range 7RU 2. Create and interpret line plots with fractions II 8LG
Session 3	1. Add fractions with like denominators using area models Y5W 2. Represent addition of fractions with unlike denominators using objects S9X
Session 4	1. Divide 2-digit numbers by 1-digit numbers: complete the table UFM
Session 5	1. Multi-step word problems involving remainders SLS

Module 4: More Division

Textbook section	IXL skills
Session 1	1. Divide 3-digit numbers by 1-digit numbers using area models 6UL 2. Divide using partial quotients YQL
Session 2	1. Divide larger numbers by 1-digit numbers GE8
Session 3	1. Divide larger numbers by 1-digit numbers: interpret remainders J8D

Unit 7

Reviewing & Extending Fractions, Decimals & Multi-Digit Multiplication

Module 1: Comparing Fractions & Writing Equivalent Fractions

Textbook section	IXL skills
Session 1	1. Fractions of number lines ZQ5
Session 2	1. Compare fractions with like numerators or denominators using models Q87 2. Compare fractions using models 7XF
Session 3	1. Compare fractions using benchmarks EHJ
Session 4	1. Find equivalent fractions using number lines P5S 2. Graph equivalent fractions on number lines WQL
Session 5	1. Equivalent fractions: find the missing numerator or denominator 7CY
Session 6	1. Compare fractions 99U 2. Compare fractions: find the missing numerator or denominator KPU
Session 7	1. Compare fractions in recipes U2K 2. Order fractions MSB

Module 2: Decimals & Decimal Fractions

Textbook section	IXL skills
Session 1	1. Place values in decimal numbers UFR 2. One-tenth or one-hundredth more or less JMW
Session 2	1. Compare decimals on number lines T2W
Session 3	1. Put decimal numbers in order II WFD
Session 4	1. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH

Module 3: Introducing the Standard Multiplication Algorithm

Textbook section	IXL skills
Session 1	1. Multiply 1-digit numbers by 2-digit numbers <small>GDW</small>
Session 2	1. Multiply 1-digit numbers by 2-digit or 3-digit numbers using area models <small>SP2</small> 2. Multiply 1-digit numbers by 2- or 3-digit numbers <small>VR5</small>
Session 3	1. Multiply 1-digit numbers by 3-digit or 4-digit numbers using expanded form <small>SEG</small> 2. Multiply 1-digit numbers by multi-digit numbers using partial products <small>23C</small> 3. Multiply 1-digit numbers by 2- or 3-digit numbers: word problems <small>SSA</small>
Session 4	1. Multiply small 2-digit numbers by 2-digit numbers using area models I <small>M9Z</small>
Session 5	1. Multiply small 2-digit numbers by 2-digit numbers using area models II <small>D72</small>

Module 4: Extending the Standard Multiplication Algorithm

Textbook section	IXL skills
Session 1	1. Multiply 2-digit numbers by 2-digit numbers using area models I <small>ASZ</small> 2. Multiply 2-digit numbers by 2-digit numbers using area models II <small>8K7</small>
Session 2	1. Multiply a 2-digit number by a 2-digit number: complete the missing steps <small>XQ8</small> 2. Multiply a 2-digit number by a 2-digit number <small>MLC</small>
Session 3	1. Multiply a 2-digit number by a 2-digit number: word problems <small>GZG</small>

Unit 8

Playground Design

Module 1: Introducing Playground Design

Textbook section	IXL skills
Session 1	1. Find the mode M9S
Session 2	1. Measurement word problems with fractions UST
Session 3	1. Compare and convert customary units of length A89
Session 4	1. Create bar graphs WMA
Session 5	1. Draw angles with a protractor R9K
Session 6	1. Estimate angle measurements LUJ

Module 2: Making Decisions

Textbook section	IXL skills
Session 1	1. Area between two rectangles GY2
Session 2	1. Read a table B9R
Session 3	
Session 4	1. Add and subtract money amounts 3Y6
Session 5	

Module 3: Using Scale Models for Our Playground & Field

Textbook section	IXL skills
Session 1	
Session 2	1. Scale drawings: find the actual length PHG

Session 3

1. Scale drawings: find the scaled length 7BK

Session 4**Session 5**

1. Area and perimeter: word problems LTP
2. Multiply numbers ending in zeroes: word problems K98

Session 6

1. Add, subtract, multiply, and divide money amounts XCB
2. Use area and perimeter to determine cost 5GF

Module 4: Building Model Playgrounds**Textbook section****IXL skills****Session 1**

1. Multi-step word problems involving subtraction 68Y

Session 2

1. Multi-step word problems EA9

Session 3

1. Multi-step word problems: identify reasonable answers K6X