



IXL Skill Alignment

4th grade alignment for EngageNY Math



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Module 1

Place Value, Rounding, and Algorithms for Addition and Subtraction

Textbook section	IXL skills
Topic A: Place Value of Multi-Digit Whole Numbers	<ol style="list-style-type: none"> Convert between standard and expanded form M5V Writing numbers up to one million in words: convert digits to words 7WT
Topic B: Comparing Multi-Digit Whole Numbers	
Topic C: Rounding Multi-Digit Whole Numbers	<ol style="list-style-type: none"> Rounding: up to millions place E6V Estimate sums VMD Estimate sums: word problems SB9 Estimate differences QJY Estimate differences: word problems GWS <p><i>Also consider</i></p> <ul style="list-style-type: none"> Estimate products: word problems WGL Estimate sums, differences, products, and quotients: word problems CRD
Topic D: Multi-Digit Whole Number Addition	<ol style="list-style-type: none"> Add two numbers up to seven digits PFA Add two numbers up to seven digits: word problems KJU Add 3 or more numbers up to millions ZMC
Topic E: Multi-Digit Whole Number Subtraction	<ol style="list-style-type: none"> Subtract numbers up to seven digits VPX
Topic F: Addition and Subtraction Word Problems	

Module 2

Unit Conversions and Problem Solving with Metric Measurement

Textbook section	IXL skills
Topic A: Metric Unit Conversions	<ol style="list-style-type: none">1. Compare and convert metric units of length <small>GZM</small>2. Compare and convert metric units of weight <small>7RC</small>3. Compare and convert metric units of volume <small>FHV</small>
Topic B: Application of Metric Unit Conversions	<ol style="list-style-type: none">1. Compare and convert metric units <small>UL5</small> <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which metric unit is appropriate? <small>FPM</small>

Module 3

Multi-Digit Multiplication and Division

Textbook section	IXL skills
Topic A: Multiplicative Comparison Word Problems	
Topic B: Multiplication by 10, 100, and 1,000	
Topic C: Multiplication of up to Four Digits by Single-Digit Numbers	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 2-digit numbers <small>GDW</small> 2. Multiply 1-digit numbers by 3-digit or 4-digit numbers <small>PPM</small> 3. Distributive property: find the missing factor <small>US7</small> <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply using the distributive property <small>LXG</small>
Topic D: Multiplication Word Problems	
Topic E: Division of Tens and Ones with Successive Remainders	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers <small>4T7</small> 2. Divide 2-digit numbers by 1-digit numbers: word problems <small>QMT</small> 3. Divide 2-digit numbers by 1-digit numbers: interpret remainders <small>5WV</small>
Topic F: Reasoning with Divisibility	<ol style="list-style-type: none"> 1. Prime and composite: up to 20 <small>TNF</small> 2. Choose the multiples of a given number up to 12 <small>ENC</small> 3. Identify factors <small>2S9</small>
Topic G: Division of Thousands, Hundreds, Tens, and Ones	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers: interpret remainders <small>5WV</small> 2. Divide larger numbers by 1-digit numbers <small>GE8</small> 3. Divide larger numbers by 1-digit numbers: word problems <small>DKK</small> 4. Divide larger numbers by 1-digit numbers: interpret remainders <small>J8D</small>

Topic H: Multiplication of Two-Digit by Two-Digit Numbers

1. Multiply a 2-digit number by a 2-digit number: complete the missing steps XQ8
2. Multiply a 2-digit number by a 2-digit number MLC

Also consider

- Multiply a 2-digit number by a 2-digit number: word problems GZG
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Module 4

Angle Measure and Plane Figures

Textbook section	IXL skills
Topic A: Lines and Angles	<ol style="list-style-type: none">1. Points, lines, line segments, rays, and angles 9MK2. Parallel, perpendicular, and intersecting lines 8VQ3. Acute, right, obtuse, and straight angles R5K
Topic B: Angle Measurement	<ol style="list-style-type: none">1. Angles of 90, 180, 270, and 360 degrees UQV2. Measure angles with a protractor NCN <p><i>Also consider</i></p> <ul style="list-style-type: none">• Estimate angle measurements LUJ
Topic C: Problem Solving with the Addition of Angle Measures	<ol style="list-style-type: none">1. Adjacent angles VJY
Topic D: Two-Dimensional Figures and Symmetry	<ol style="list-style-type: none">1. Acute, obtuse, and right triangles 7QK2. Scalene, isosceles, and equilateral triangles 5UV3. Classify quadrilaterals A6V4. Identify lines of symmetry 9FD

Module 5

Fraction Equivalence, Ordering, and Operations

Textbook section	IXL skills
Topic A: Decomposition and Fraction Equivalence	<ol style="list-style-type: none"> Decompose fractions into unit fractions XHG Decompose fractions N2Z Decompose fractions multiple ways UEW
Topic B: Fraction Equivalence Using Multiplication and Division	<ol style="list-style-type: none"> Find equivalent fractions using area models HYC Graph equivalent fractions on number lines WQL <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify equivalent fractions GSG
Topic C: Fraction Comparison	<ol style="list-style-type: none"> Graph and compare fractions with like numerators or denominators on number lines 9XF Compare fractions with like numerators or denominators M8E Benchmark fractions LUS Compare fractions using benchmarks EHJ Compare fractions 99U <p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare fractions using models 7XF
Topic D: Fraction Addition and Subtraction	<ol style="list-style-type: none"> Add fractions with like denominators using number lines 6QH Subtract fractions with like denominators using number lines MJX Add and subtract fractions with like denominators using number lines GAK Add and subtract fractions with like denominators FXD Add and subtract fractions with like denominators: word problems XBR Add and subtract fractions with like denominators in recipes LYR Add 3 or more fractions with like denominators LNE

8. Add fractions with unlike denominators 7BJ

Also consider

- Convert between improper fractions and mixed numbers JFE
- Add fractions with unlike denominators using models 6PM

Topic E: Extending Fraction Equivalence to Fractions Greater Than 1

1. Create and interpret line plots with fractions QQB
2. Convert between improper fractions and mixed numbers JFE
3. Multiply unit fractions by whole numbers using number lines XKJ
4. Multiply unit fractions by whole numbers EXQ

Topic F: Addition and Subtraction of Fractions by Decomposition

1. Add and subtract mixed numbers with like denominators 9AS

Topic G: Repeated Addition of Fractions as Multiplication

1. Multiply fractions by whole numbers JLH
2. Multiply fractions by whole numbers: word problems LX8
3. Multiply fractions and mixed numbers by whole numbers in recipes 7B3

Also consider

- Create and interpret line plots with fractions QQB
- Multiply fractions by whole numbers using number lines Q7B
- Multiply fractions by whole numbers using models Y5C

Topic H: Exploring a Fraction Pattern

Module 6

Decimal Fractions

Textbook section

IXL skills

Topic A: Exploration of Tenths

Topic B: Tenths and Hundredths

1. What decimal number is illustrated? B7E
2. Model decimals and fractions TPV
3. Graph decimals on number lines N93
4. Decimal number lines EWY
5. Graph fractions as decimals on number lines 2N9
6. Convert decimals between standard and expanded form using fractions YCH

Also consider

- Fractions with denominators of 10 and 100 VLP

Topic C: Decimal Comparison

1. Compare decimals on number lines T2W
2. Put decimal numbers in order I LVX
3. Put decimal numbers in order II WFD
4. Compare decimals and fractions on number lines 8YG

Also consider

- Compare money amounts EAL

Topic D: Addition with Tenths and Hundredths

1. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH
2. Solve decimal problems using diagrams WCK

Topic E: Money Amounts as Decimal Numbers

1. Add and subtract money amounts 3Y6
2. Find the change, price, or amount paid RTE
3. Price lists with addition and subtraction 92H

Also consider

- Count coins and bills - up to \$20 bill M67

Module 7

Exploring Measurement with Multiplication

Textbook section	IXL skills
Topic A: Measurement Conversion Tables	1. Compare and convert customary units of volume GAA <i>Also consider</i> <ul style="list-style-type: none"> Compare and convert customary units of length A89 Compare and convert customary units DRM Compare customary units by multiplying 8U7 Convert time units VNU
Topic B: Problem Solving with Measurement	1. Add and subtract mixed time units VD2 <i>Also consider</i> <ul style="list-style-type: none"> Compare customary units by multiplying 8U7 Add and subtract mixed customary units GGD
Topic C: Investigation of Measurements Expressed as Mixed Numbers	
Topic D: Year in Review	1. Prime and composite: up to 20 TNF 2. Add two numbers up to seven digits PFA 3. Subtract numbers up to seven digits VPX 4. Multiply 1-digit numbers by 2-digit numbers GDW 5. Multiply 1-digit numbers by 3-digit or 4-digit numbers PPM 6. Multiply using the distributive property LXG 7. Multiply a 2-digit number by a 2-digit number MLC 8. Divide 2-digit numbers by 1-digit numbers 4T7 9. Divide larger numbers by 1-digit numbers GE8 10. Count coins and bills - up to \$20 bill M67 11. Which metric unit is appropriate? FPM

12. Compare and convert metric units of length GZM
 13. Compare and convert metric units of weight 7RC
 14. Compare and convert metric units of volume FHV
 15. Compare and convert metric units UL5
 16. Convert between improper fractions and mixed numbers JFE
 17. Graph decimals on number lines N93
 18. Graph fractions as decimals on number lines 2N9
 19. Parallel, perpendicular, and intersecting lines 8VQ
 20. Scalene, isosceles, and equilateral triangles 5UV
 21. Classify quadrilaterals A6V
 22. Identify lines of symmetry 9FD
 23. Acute, right, obtuse, and straight angles R5K
 24. Measure angles with a protractor NCN
 25. Area of complex figures (with all right angles) 38W
 26. Area between two rectangles GY2
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