



IXL Skill Alignment

3rd grade alignment for EngageNY Common Core Curriculum



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Module 1

Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10

Textbook section	IXL skills
Topic A: Multiplication and the Meaning of the Factors	<ol style="list-style-type: none"> 1. Count equal groups 9K7 2. Identify multiplication expressions for equal groups 9AE 3. Write multiplication sentences for equal groups V98 4. Relate addition and multiplication for equal groups GGC 5. Identify multiplication expressions for arrays HZL 6. Write multiplication sentences for arrays 5FZ 7. Make arrays to model multiplication PPR 8. Relate addition and multiplication P74
Topic B: Division as an Unknown Factor Problem	<ol style="list-style-type: none"> 1. Divide by counting equal groups UYK 2. Write division sentences for groups FSX 3. Relate multiplication and division for groups FTU 4. Write division sentences for arrays 8RW 5. Relate multiplication and division for arrays XSK
Topic C: Multiplication Using Units of 2 and 3	<ol style="list-style-type: none"> 1. Skip-counting LQM 2. Multiply by 2 94M 3. Multiply by 3 38K
Topic D: Division Using Units of 2 and 3	
Topic E: Multiplication and Division Using Units of 4	<ol style="list-style-type: none"> 1. Multiply by 4 5U6
Topic F: Distributive Property and Problem Solving Using Units of 2-5 and 10	

Module 2

Place Value and Problem Solving with Units of Measure

Textbook section	IXL skills
Topic A: Time Measurement and Problem Solving	
Topic B: Measuring Weight and Liquid Volume in Metric Units	<ol style="list-style-type: none"> 1. Which metric unit of weight is appropriate? PTF 2. Compare and convert metric units of volume RK2
Topic C: Rounding to the Nearest Ten and Hundred	<ol style="list-style-type: none"> 1. Rounding - nearest ten or hundred only Q65
Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83 2. Add two numbers up to three digits: word problems QU2 3. Estimate sums up to 1,000 3Y9
Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm	<ol style="list-style-type: none"> 1. Subtract numbers up to three digits EHT 2. Subtract numbers up to three digits: word problems K88 3. Estimate differences up to 1,000 A47

Module 3

Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10

Textbook section	IXL skills
Topic A: The Properties of Multiplication and Division	<ol style="list-style-type: none"> Multiplication tables for 6, 7, 8, and 9 <small>XT7</small> Multiplication facts for 6, 7, 8, and 9: find the missing factor <small>X7N</small> Multiplication facts up to 10: find the missing factor <small>FZA</small> Division facts up to 10: find the missing number <small>HE7</small> Solve for the variable: multiplication and division only <small>AL9</small> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> Multiplication facts for 6, 7, 8, and 9: true or false? <small>EEY</small>
Topic B: Multiplication and Division Using Units of 6 and 7	<ol style="list-style-type: none"> Multiply by 6 <small>SX6</small> Multiply by 7 <small>9PT</small> Divide by 6 <small>97S</small> Divide by 7 <small>D2F</small>
Topic C: Multiplication and Division Using Units up to 8	<ol style="list-style-type: none"> Multiply by 8 <small>SMR</small> Multiplication word problems <small>9TA</small> Divide by 8 <small>CVD</small> Division word problems <small>ECS</small> Understanding parentheses <small>CXK</small>
Topic D: Multiplication and Division Using Units of 9	<ol style="list-style-type: none"> Multiply by 9 <small>SUH</small> Divide by 9 <small>RTB</small>
Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1	<ol style="list-style-type: none"> Multiply by 0 <small>BGK</small> Multiply by 1 <small>CRE</small> Divide by 1 <small>VTL</small> Distributive property: find the missing factor <small>7VP</small>

Topic F: Multiplication of Single-Digit Factors and Multiples of 10

1. Multiply by a multiple of ten MS6

Module 4

Multiplication and Area

Textbook section	IXL skills
Topic A: Foundations for Understanding Area	<ol style="list-style-type: none">1. Find the area of figures made of unit squares FLQ2. Create rectangles with a given area V73
Topic B: Concepts of Area Measurement	<ol style="list-style-type: none">1. Find the area of rectangles and squares 8KJ
Topic C: Arithmetic Properties Using Area Models	
Topic D: Applications of Area Using Side Lengths of Figures	<ol style="list-style-type: none">1. Create rectangles with a given area V732. Find the area of rectangles and squares 8KJ3. Find the area of rectangles: word problems 5HA4. Find the area between two rectangles KH6 <p><i>Also consider:</i></p> <ul style="list-style-type: none">• Find the area of complex figures SGP

Module 5

Fractions as Numbers on the Number Line

Textbook section	IXL skills
Topic A: Partition a Whole into Equal Parts	<ol style="list-style-type: none"> 1. Identify equal parts FHY
Topic B: Unit Fractions and Their Relation to the Whole	<ol style="list-style-type: none"> 1. Identify equal parts FHY 2. Understand fractions: fraction bars 6JL 3. Understand fractions: area models RTW 4. Show fractions: fraction bars ZPW 5. Show fractions: area models NLE 6. Match fractions to models: halves, thirds, and fourths Y55 7. Match unit fractions to models CPK 8. Match fractions to models YHL 9. Unit fractions: word problems HM7
Topic C: Comparing Unit Fractions and Specifying the Whole	
Topic D: Fractions on the Number Line	<ol style="list-style-type: none"> 1. Graph unit fractions on number lines CBW 2. Graph fractions on number lines 7QM 3. Graph smaller or larger fractions on a number line 2PH 4. Graph fractions equivalent to 1 on number lines 7BL 5. Compare fractions using number lines 38T 6. Graph and compare fractions with like denominators on number lines 63U 7. Graph and compare fractions with like numerators on number lines ZPD 8. Graph and compare fractions on number lines 6H5 9. Compare fractions 78D 10. Graph and order fractions on number lines T7E <p><i>Also consider:</i></p> <ul style="list-style-type: none"> • Identify unit fractions on number lines JVC

- Find fractions equivalent to whole numbers KCE

Topic E: Equivalent Fractions

1. Identify unit fractions on number lines JVC
2. Identify fractions on number lines AWH
3. Identify equivalent fractions on number lines HYM
4. Find equivalent fractions using number lines JL8
5. Graph equivalent fractions on number lines WPQ
6. Graph fractions equivalent to 1 on number lines 7BL
7. Select fractions equivalent to whole numbers using area models GKZ
8. Find fractions equivalent to whole numbers KCE

Topic F: Comparison, Order, and Size of Fractions

1. Graph and compare fractions with like numerators on number lines ZPD
 2. Order fractions with like numerators PCW
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Module 6

Collecting and Displaying Data

Textbook section

IXL skills

Topic A: Generate and Analyze Categorical Data

1. Interpret tally charts 8CW
2. Interpret bar graphs V54
3. Create bar graphs RPF
4. Interpret line plots YXD
5. Interpret pictographs Y5D
6. Create pictographs AVG

Topic B: Generate and Analyze Measurement Data

1. Interpret tally charts 8CW
2. Interpret bar graphs V54
3. Create bar graphs RPF
4. Interpret line plots YXD
5. Create line plots H5J
6. Interpret pictographs Y5D
7. Create pictographs AVG
8. Measure using an inch ruler LC2

Module 7

Geometry and Measurement Word Problems

Textbook section	IXL skills
Topic A: Solving Word Problems	
Topic B: Attributes of Two-Dimensional Figures	<ol style="list-style-type: none"> 1. Count and compare sides and vertices GWA 2. Classify quadrilaterals CNJ 3. Find the area of figures made of unit squares FLQ 4. Find the area of rectangles and squares 8KJ
Topic C: Problem Solving with Perimeter	<ol style="list-style-type: none"> 1. Perimeter of rectangles ZJT 2. Perimeter: find the missing side length T2V
Topic D: Recording Perimeter and Area Data on Line Plots	<ol style="list-style-type: none"> 1. Interpret line plots YXD 2. Create line plots H5J 3. Create rectangles with a given area V73 4. Compare area and perimeter of two figures PMF
Topic E: Problem Solving with Perimeter and Area	<ol style="list-style-type: none"> 1. Perimeter of rectangles ZJT 2. Find the area of rectangles: word problems 5HA 3. Find the area between two rectangles KH6 <p><i>Also consider:</i></p> <ul style="list-style-type: none"> • Find the area of complex figures SGP • Relationship between area and perimeter I ZWF
Topic F: Year in Review	<ol style="list-style-type: none"> 1. Skip-counting LQM 2. Add two numbers up to three digits E83 3. Subtract numbers up to three digits EHT 4. Count equal groups 9K7 5. Identify multiplication expressions for equal groups 9AE 6. Write multiplication sentences for equal groups V98 7. Relate addition and multiplication for equal groups GGC

8. Identify multiplication expressions for arrays HZL
 9. Make arrays to model multiplication PPR
 10. Multiplication tables up to 12 TK7
 11. Multiplication facts up to 12: find the missing factor WB8
 12. Divide by counting equal groups UYK
 13. Write division sentences for groups FSX
 14. Write division sentences for arrays 8RW
 15. Division facts up to 10 M8T
 16. Understanding parentheses CXK
 17. Distributive property: find the missing factor 7VP
 18. Rounding - nearest ten or hundred only Q65
 19. Interpret bar graphs V54
 20. Create bar graphs RPF
 21. Interpret line plots YXD
 22. Create line plots H5J
 23. Show fractions: fraction bars ZPW
 24. Show fractions: area models NLE
 25. Match fractions to models: halves, thirds, and fourths Y55
 26. Match unit fractions to models CPK
 27. Match fractions to models YHL
 28. Measure using an inch ruler LC2
 29. Classify quadrilaterals CNJ
 30. Perimeter of rectangles ZJT
 31. Find the area of rectangles and squares 8KJ
 32. Compare area and perimeter of two figures PMF
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