



IXL Skill Alignment

3rd grade alignment for EngageNY Math



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Module 1

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

Topic A: Multiplication and the Meaning of the Factors

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none">1. Relate addition and multiplication for equal groups: factors up to 5 8VB2. Identify multiplication expressions for equal groups 9AE3. Write multiplication sentences for equal groups: factors up to 5 XWC <p><i>Also consider</i></p> <ul style="list-style-type: none">• Count equal groups 9K7
Lesson 2	<ol style="list-style-type: none">1. Identify multiplication expressions for arrays HZL2. Write multiplication sentences for arrays 5FZ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify repeated addition in arrays: sums to 25 ER2• Write addition sentences for arrays: sums to 25 A87
Lesson 3	<ol style="list-style-type: none">1. Write multiplication sentences for equal groups V982. Relate addition and multiplication for equal groups GGC3. Relate addition and multiplication P74 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiplication word problems: factors up to 5 HDU

Topic B: Division as an Unknown Factor Problem

Textbook section	IXL skills
Lesson 4	1. Divide by counting equal groups UYK
Lesson 5	2. Write division sentences for groups FSX 3. Division word problems: divisors and quotients up to 5 CFR
Lesson 6	1. Write division sentences for arrays 8RW 2. Relate multiplication and division for groups FTU 3. Relate multiplication and division for arrays XSK

Topic C: Multiplication Using Units of 2 and 3

Textbook section	IXL skills
Lesson 7	1. Write multiplication sentences for arrays: multiply by 2 S6W <i>Also consider</i> • Skip-counting sequences: count by twos 7S8 • Multiply by 2 using a number line QDN
Lesson 8	1. Write multiplication sentences for arrays: multiply by 3 87S 2. Make arrays to model multiplication with 2 and 3 NBL
Lesson 9	1. Multiply by 2 94M 2. Multiply by 3 38K
Lesson 10	1. Multiplication facts for 2 and 3: sorting QVQ

Topic D: Division Using Units of 2 and 3

Textbook section	IXL skills
Lesson 11	1. Relate multiplication and division for arrays: factors of 2 or 3 XQS 2. Multiplication facts for 2 and 3: find the missing factor 8Y4

Lesson 12

1. Divide by 2 ANU

Lesson 13

1. Divide by 3 PCL

Also consider

- Multiplication word problems: find the missing number UAD

Topic E: Multiplication and Division Using Units of 4

Textbook section

IXL skills

Lesson 14

1. Skip-counting sequences: count by fours TPM

Also consider

- Multiply by 4 using a number line 58G

Lesson 15

1. Multiply by 4 5U6

Also consider

- Multiply by 2 and 4 in recipes MH8

Lesson 16

Lesson 17

1. Divide by 4 QGT

Also consider

- Multiply and divide by 2 and 4 LHF

Topic F: Distributive Property and Problem Solving Using Units of 2-5 and 10

Textbook section

IXL skills

Lesson 18

1. Use the distributive property to multiply by 3, 4, or 5 VMM

Also consider

- Multiply by 10 6YD
- Multiplication tables for 2, 3, 4, 5, and 10 DW5

Lesson 19

1. Division facts for 2, 3, 4, 5, and 10 2JB

Also consider

- Divide by 5 C9M
- Divide by 10 YRG
- Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY

Lesson 20

1. Multiplication and division word problems: factors up to 5 7HS

Lesson 21

Also consider

- Multiplication facts for 2, 3, 4, 5, and 10: true or false? 87M
- Division facts for 2, 3, 4, 5, and 10: true or false? YSD

Module 2

Place Value and Problem Solving with Units of Measure

Topic A: Time Measurement and Problem Solving

Textbook section	IXL skills
Lesson 1	1. Read clocks and write times: to the nearest 5 minutes 64G
Lesson 2	<p><i>Also consider</i></p> <ul style="list-style-type: none"> Reading a timeline LDK
Lesson 3	<p>1. Match analog and digital clocks L5U</p> <p>2. Read clocks and write times 5ZQ</p> <p><i>Also consider</i></p> <ul style="list-style-type: none"> Match clocks and times LPT
Lesson 4	<p>1. Elapsed time word problems: find the elapsed time V9D</p> <p>2. Elapsed time: find the end time SPX</p> <p><i>Also consider</i></p> <ul style="list-style-type: none"> Elapsed time word problems: find the end time 5VC Find the elapsed time SCQ
Lesson 5	1. Find start and end times: two-step word problems C95

Topic B: Measuring Weight and Liquid Volume in Metric Units

Textbook section	IXL skills
Lesson 6	1. Which metric unit of weight is appropriate? PTF
Lesson 7	<p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare and convert metric units of weight C9Z
Lesson 8	1. Addition, subtraction, and multiplication word problems XN2

Lesson 9

1. Which metric unit of volume is appropriate? LYS

Lesson 10

Also consider

- Compare and convert metric units of volume RK2

Lesson 11

1. Measurement word problems VPW

Also consider

- Choose the appropriate measuring tool FTA

Topic C: Rounding to the Nearest Ten and Hundred

Textbook section

IXL skills

Lesson 12

1. Round to the nearest ten using a number line 8X3
2. Round to the nearest ten JDN

Also consider

- Measure using a centimeter ruler MPX

Lesson 13

1. Rounding input/output tables 6Y5

Lesson 14

Also consider

- Round using a number line: nearest ten or hundred 6ST
- Rounding: nearest ten or hundred Q65

Topic D: Two- and Three-Digit Measurement Addition Using the Standard Algorithm

Textbook section

IXL skills

Lesson 15

1. Add two numbers up to three digits: with regrouping 9NH

Lesson 16

2. Add two numbers up to three digits: word problems QU2
3. Add mixed units V97

Also consider

- Add two numbers up to three digits: without regrouping 96M
- Add two-digit numbers - sums to 200 GF2

- Use models to add three-digit numbers: with regrouping [NWW](#)

Lesson 17

1. Estimate sums by rounding: up to 1,000 [3Y9](#)
2. Estimate sums by rounding: word problems [WB2](#)

Also consider

- Estimate sums using compatible numbers [HRT](#)

Topic E: Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm

Textbook section	IXL skills
Lesson 18	<ol style="list-style-type: none"> 1. Subtract three-digit numbers: regroup tens or hundreds U8E <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract two-digit numbers: with regrouping 96Y • Subtract numbers up to three digits: without regrouping QFE
Lesson 19	<ol style="list-style-type: none"> 1. Subtract three-digit numbers: regroup tens and hundreds WR8 2. Subtract across zeros 93U 3. Subtract mixed units USS
Lesson 20	<ol style="list-style-type: none"> 1. Estimate differences by rounding: up to 1,000 A47 2. Estimate differences by rounding: word problems M42 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Estimate differences using compatible numbers PVS
Lesson 21	<ol style="list-style-type: none"> 1. Estimate sums and differences MTL 2. Estimate sums and differences: word problems BU8 3. Addition and subtraction word problems XSH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Estimate sums and differences using compatible numbers TDT

Module 3

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

Topic A: The Properties of Multiplication and Division

Textbook section	IXL skills
Lesson 1	1. Write two multiplication sentences for an array QLK <i>Also consider</i> <ul style="list-style-type: none"> Multiplication facts for 2, 3, 4, 5, and 10: sorting REN Division facts for 2, 3, 4, 5, and 10: sorting XDN Skip-counting with tables VA9
Lesson 2	1. Break apart numbers to multiply WPR 2. Multiply by 5 Y9E <i>Also consider</i> <ul style="list-style-type: none"> Word problems with multiplication 9EM
Lesson 3	1. Write variable equations to represent word problems: multiplication and division only ZNN <i>Also consider</i> <ul style="list-style-type: none"> Solve for the variable: multiplication and division only AL9

Topic B: Multiplication and Division Using Units of 6 and 7

Textbook section	IXL skills
Lesson 4	1. Multiply by 6 SX6 2. Divide by 6 97S
Lesson 5	1. Multiply by 7 9PT 2. Divide by 7 D2F
Lesson 6	1. Multiply and divide by 6 and 7 QTV

Lesson 7

1. Multiplication facts for 6 and 7: find the missing factor N57

Topic C: Multiplication and Division Using Units up to 8

Textbook section	IXL skills
Lesson 8	<ol style="list-style-type: none"> 1. Understanding parentheses AYY
Lesson 9	<ol style="list-style-type: none"> 1. Multiply three numbers 9DF 2. Multiply one-digit numbers by teen numbers 66L <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Properties of multiplication UCK
Lesson 10	<ol style="list-style-type: none"> 1. Multiply by 8 SMR 2. Divide by 8 CVD <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Skip-counting sequences: count by eights W47
Lesson 11	<ol style="list-style-type: none"> 1. Multiply and divide by 2, 4, and 8 6A5

Topic D: Multiplication and Division Using Units of 9

Textbook section	IXL skills
Lesson 12	<ol style="list-style-type: none"> 1. Multiply by 9 SUH 2. Divide by 9 RTB 3. Multiply by 5 and 10 G48
Lesson 13	<ol style="list-style-type: none"> 1. Skip-counting sequences: count by nines MKK
Lesson 14	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiplication facts up to 10: find the missing factor FZA • Division facts up to 10: find the missing number HE7 • Multiplication facts for 6, 7, 8, and 9: sorting TZ7 • Division facts for 6, 7, 8, and 9: sorting KQR

Lesson 15

1. Multiplication and division word problems 85K

Also consider

- Multiplication tables for 6, 7, 8, and 9 XT7
- Division facts for 6, 7, 8, and 9 U2C

Topic E: Analysis of Patterns and Problem Solving Including Units of 0 and 1

Textbook section	IXL skills
Lesson 16	<ol style="list-style-type: none"> 1. Multiply by 0 or 1 CNG 2. Multiply by 0 or 1: complete the sentence RBK 3. Multiply and divide with 1 and 0 XWR
Lesson 17	<ol style="list-style-type: none"> 1. Even or odd: multiplication patterns WS2 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Even or odd U9Q • Squares up to 10 x 10 GMM
Lesson 18	<ol style="list-style-type: none"> 1. Two-step mixed operation word problems SRL 2. Two-step word problems: identify reasonable answers V5A <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiplication and division facts up to 10 VXX • Multiplication and division facts up to 10: find the missing number 88D

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

1. Multiply by a multiple of ten using place value GPN

Also consider

- Multiplication tables up to 10 PNV
- Division facts up to 10 M8T

Lesson 20

1. Multiply by a multiple of ten MS6

Also consider

- Multiplication patterns: multiples of 10 and 100 QGP
- Division patterns over increasing place values: up to hundreds E95

Lesson 21

1. Multiply multiples of ten by one-digit numbers FYX

Module 4

Multiplication and Area

Topic A: Foundations for Understanding Area

Textbook section	IXL skills
Lesson 1	1. Tile a rectangle and find the area EKK
Lesson 2	1. Find the area of figures made of unit squares FLQ <i>Also consider</i> • Select two figures with the same area 7GW
Lesson 3	1. Create rectangles with a given area V73 <i>Also consider</i> • Create figures with a given area Z2H
Lesson 4	1. Tile a rectangle and find the area: customary and metric units D6T <i>Also consider</i> • Select figures with a given area XR6

Topic B: Concepts of Area Measurement

Textbook section	IXL skills
Lesson 5	1. Multiply to find the area of a rectangle made of unit squares S7G
Lesson 6	1. Make arrays to model multiplication PPR
Lesson 7	1. Find the area of rectangles: side lengths up to 5 units EL5 <i>Also consider</i> • Area of figures on grids J93

Lesson 8

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

Topic C: Arithmetic Properties Using Area Models

Textbook section	IXL skills
Lesson 9	1. Multiply one-digit numbers by teen numbers using grids 8XQ
Lesson 10	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Break apart two-digit numbers to multiply FFA
Lesson 11	1. Make arrays to model multiplication: given products TY9

Topic D: Applications of Area Using Side Lengths of Figures

Textbook section	IXL skills
Lesson 12	1. Word problems with area 9LE
Lesson 13	<ol style="list-style-type: none"> 1. Find the areas of complex figures by dividing them into rectangles DVB 2. Find the area between two rectangles KH6 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the area of rectangles with missing unit squares KTN
Lesson 14	1. Find the area of complex figures SGP
Lesson 15	1. Find the area of complex figures with missing side lengths 29Y
Lesson 16	

Module 5

Fractions as Numbers on the Number Line

Topic A: Partition a Whole into Equal Parts

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> 1. Make halves, thirds, and fourths HGP 2. Make sixths and eighths KTM
Lesson 2	<ol style="list-style-type: none"> 1. Identify equal parts FHY 2. Unit fractions: modeling word problems UV8
Lesson 3	<ol style="list-style-type: none"> 1. Match fraction words to models P6L 2. Match fractions written with words to models 8XD
Lesson 4	<ol style="list-style-type: none"> 1. Make halves, thirds, and fourths in different ways DXJ

Topic B: Unit Fractions and their Relation to the Whole

Textbook section	IXL skills
Lesson 5	<ol style="list-style-type: none"> 1. Match unit fractions to models CPK <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Unit fractions: word problems HM7
Lesson 6	<ol style="list-style-type: none"> 1. Show fractions: fraction bars ZPW 2. Understand fractions: area models RTW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Fractions of a whole: modeling word problems 9PU
Lesson 7	<ol style="list-style-type: none"> 1. Match fractions to models YHL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Fractions of a group: word problems Z65

Lesson 8

1. Fractions of a whole: word problems SH7

Lesson 9

1. Select fractions equivalent to whole numbers using models GKZ

Also consider

- Write fractions using numbers and words 7FX

Topic C: Comparing Unit Fractions and Specifying the Whole

Textbook section

IXL skills

Lesson 10

1. Compare unit fractions 99C

Lesson 11

2. Compare unit fractions: denominators up to 12 HVV

Lesson 12

Lesson 13

1. Make halves, thirds, fourths, sixths, and eighths JHE

Also consider

- Match unit fractions to models: denominators up to 12 DAA

Topic D: Fractions on the Number Line

Textbook section

IXL skills

Lesson 14

1. Fractions of number lines: unit fractions TBX

2. Graph unit fractions on number lines CBW

Also consider

- Identify unit fractions on number lines JVC

Lesson 15

1. Graph fractions less than 1 on number lines HWJ

2. Identify fractions on number lines AWH

Lesson 16

1. Graph fractions equivalent to 1 on number lines 7BL

2. Graph fractions greater than 1 on number lines 2GQ

Lesson 17

1. Graph fractions on number lines 7QM

Lesson 18

1. Graph and compare fractions on number lines 6H5
2. Graph and compare fractions with like denominators on number lines 63U

Also consider

- Compare fractions using number lines 38T
- Graph and compare fractions with like numerators on number lines ZPD
- Compare fractions with different numerators and denominators SU7

Lesson 19

1. Graph and compare improper fractions on number lines D93

Topic E: Equivalent Fractions**Textbook section****IXL skills**

Lesson 20

1. Show fractions: area models NLE

Also consider

- Understand fractions: fraction bars 6JL

Lesson 21

1. Find equivalent fractions using number lines JL8
2. Identify equivalent fractions on number lines HYM

Lesson 22

1. Find equivalent fractions using area models: two models ZJ2

Lesson 23

1. Graph equivalent fractions on number lines WPQ
2. Identify equivalent fractions 7DA

Also consider

- Find equivalent fractions using fraction strips: one model 9EP

Lesson 24

1. Fractions equivalent to one 2ZU

Lesson 25

Lesson 26

1. Find fractions equivalent to whole numbers KCE

Lesson 27

1. Find equivalent fractions using area models: one model 6DY
2. Find equivalent fractions WMX

Topic F: Comparison, Order, and Size of Fractions

Textbook section	IXL skills
Lesson 28	1. Use words to compare fractions with like numerators SXT
Lesson 29	<ol style="list-style-type: none">1. Compare fractions with like numerators using models RGM2. Compare fractions with like numerators 7LX <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare fractions 78D
Lesson 30	1. Fractions of number lines J8M

Module 6

Collecting and Displaying Data

Topic A: Generate and Analyze Categorical Data

Textbook section	IXL skills
Lesson 1	<ol style="list-style-type: none"> 1. Interpret tally charts 8CW 2. Interpret pictographs Y5D 3. Create pictographs AVG <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Which tally chart is correct? R7K • Read a table DE2
Lesson 2	<ol style="list-style-type: none"> 1. Create bar graphs RPF
Lesson 3	<ol style="list-style-type: none"> 2. Interpret bar graphs: numbers up to 100 9KG 3. Use bar graphs to solve problems BCJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create bar graphs: numbers up to 10 74V • Interpret bar graphs: numbers up to 10 ZWC
Lesson 4	<ol style="list-style-type: none"> 1. Create bar graphs: multi-digit numbers WYL 2. Interpret bar graphs: multi-digit numbers UP6 3. Interpret bar graphs: two-step problems TLZ

Topic B: Generate and Analyze Measurement Data

Textbook section	IXL skills
Lesson 5	<ol style="list-style-type: none"> 1. Measure using an inch ruler LC2
Lesson 6	<ol style="list-style-type: none"> 1. Create and interpret line plots with fractions B8Q
Lesson 7	

Lesson 8

1. Create line plots with fractions YUR

Also consider

- Create line plots II X58

Lesson 9

1. Interpret a table 42T
-

Module 7

Geometry and Measurement Word Problems

Topic A: Solving Word Problems

Textbook section	IXL skills
Lesson 1	1. Write variable equations to represent word problems U6P
Lesson 2	2. Two-step addition and subtraction word problems CBA
Lesson 3	3. Two-step multiplication and division word problems 8FP
	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply money amounts: word problems PNP • Measurement word problems II LTY • Use strip diagrams to represent and solve multi-step word problems W9Y

Topic B: Attributes of Two-Dimensional Figures

Textbook section	IXL skills
Lesson 4	1. Parallel sides in quadrilaterals 6E9 2. Sides and angles of quadrilaterals RBZ
	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Angles greater than, less than, or equal to a right angle 2YR • Parallel lines 3E7
Lesson 5	1. Count and compare sides and vertices GWA 2. Identify two-dimensional shapes JBT
	<p><i>Also consider</i></p> <ul style="list-style-type: none"> • Is it a polygon? C2P
Lesson 6	1. Draw quadrilaterals 5KS
Lesson 7	

Lesson 8

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

Lesson 9

1. Classify quadrilaterals CNJ
2. Compose two-dimensional shapes AES

Topic C: Problem Solving with Perimeter

Textbook section

IXL skills

Lesson 10

1. Perimeter of figures on grids TQP

Lesson 11

Lesson 12

1. Perimeter of quadrilaterals 77Y

Also consider

- Perimeter of rectangles ZJT

Lesson 13

1. Perimeter of polygons LLY

Lesson 14

1. Perimeter of regular polygons 7MD

Lesson 15

1. Find the perimeter: word problems PCZ

Lesson 16

Lesson 17

1. Perimeter of rectilinear shapes 65Z

Topic D: Recording Perimeter and Area Data on Line Plots

Textbook section

IXL skills

Lesson 18

1. Find the perimeter of rectangles and squares: use properties AT2
2. Create rectangles and squares with a given area XWE

Also consider

- Relationship between area and perimeter: find the perimeter ZWF

Lesson 19

1. Create line plots H5J

Lesson 20

1. Relationship between area and perimeter: find the area KNR

Lesson 21

Also consider

- Compare area and perimeter of two figures PMF

Lesson 22

1. Interpret line plots YXD

Topic E: Problem Solving with Perimeter and Area**Textbook section****IXL skills**

Lesson 23

1. Perimeter: word problems CLD

Lesson 24

1. Find the area or perimeter of rectangles and squares QYU

Lesson 25

2. Area and perimeter of rectangles: find the missing side length SBU

Lesson 26

Lesson 27

Lesson 28

1. Find the area, perimeter, or side length: word problems KD8

Lesson 29

Also consider

Lesson 30

- Use area and perimeter to determine cost 8H8

Topic F: Year in Review**Textbook section****IXL skills**

Lesson 31

Understand fractions

1. Make halves, fourths, and eighths HFF

Lesson 32

2. Understand fractions using fraction bars: denominators up to 12 7RD

Lesson 33

Lesson 34

3. Understand fractions using area models: denominators up to 12 GBK
4. Show fractions using fraction bars: denominators up to 12 LUK
5. Show fractions using area models: denominators up to 12 XRE
6. Match fractions to models: halves, thirds, and fourths Y55
7. Match fractions to models: denominators up to 12 MZD

Decompose fractions

8. Decompose fractions into unit fractions using models P75
9. Decompose fractions into unit fractions 99A

Understand multiplication and division

10. Write multiplication and division sentences for equal groups 9ZY
11. Write multiplication and division sentences for arrays B7G

Multiplication fluency

12. Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N
13. Multiplication facts for 6, 7, 8, and 9: true or false? EEY
14. Multiplication facts up to 10: sorting SUJ
15. Multiplication facts up to 10: true or false? 3K8
16. Multiplication facts up to 10: select the missing factors WZA
17. Multiplication sentences up to 10: true or false? MTU

Division fluency

18. Division facts for 6, 7, 8, and 9: true or false? DBB
19. Division facts up to 10: sorting CYJ
20. Division facts up to 10: true or false? MPV
21. Division facts up to 10: select the missing numbers FPA
22. Division sentences up to 10: true or false? GMU

Place value

- 23. Place value - ones, tens, and hundreds BZC
- 24. Addition patterns over increasing place values:
up to hundreds E5P

Rounding

- 25. Round using a number line P8E
 - 26. Round to the nearest ten, hundred, or
thousand HNU
 - 27. Rounding input/output tables: nearest ten,
hundred, or thousand YNA
-