



IXL Skill Alignment

3rd grade alignment for Math in Focus (2013)



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Chapter 1

Numbers to 10,000

Textbook section	IXL skills
1.1: Counting	<ol style="list-style-type: none">1. Place value models up to thousands DDS2. Write numbers in words 2GW
1.2: Place Value	<ol style="list-style-type: none">1. Value of a digit DHS2. Convert between standard and expanded form: up to thousands TU23. Convert to/from a number KSN <p><i>Also consider</i></p> <ul style="list-style-type: none">• Place value names up to thousands GEV• Convert between place values U7F
1.3: Comparing and Ordering Numbers	<ol style="list-style-type: none">1. Compare numbers 56H2. Order numbers X92 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which number is greatest/least? UG2

Chapter 2

Mental Math and Estimation

Textbook section	IXL skills
2.1: Mental Addition	<ol style="list-style-type: none">1. Use compensation to add: sums up to 100 WJS <p><i>Also consider</i></p> <ul style="list-style-type: none">• Use models to add two-digit numbers DJM
2.2: Mental Subtraction	
2.3: More Mental Addition	<ol style="list-style-type: none">1. Use compensation to add: sums up to 200 3M9 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Addition word problems - up to two digits Y6C
2.4: Rounding Numbers to Estimate	<ol style="list-style-type: none">1. Round using a number line P8E2. Estimate sums and differences: word problems BU8 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Estimate sums up to 1,000 3Y9• Estimate differences up to 1,000 A47
2.5: Using Front End Estimation	

Chapter 3

Addition up to 10,000

Textbook section	IXL skills
3.1: Addition Without Regrouping	<ol style="list-style-type: none">1. Add three-digit numbers: without regrouping 96M <p><i>Also consider</i></p> <ul style="list-style-type: none">• Use models to add three-digit numbers: without regrouping ZBB
3.2: Addition With Regrouping in Hundreds	<ol style="list-style-type: none">1. Add three-digit numbers: with regrouping 9NH <p><i>Also consider</i></p> <ul style="list-style-type: none">• Use models to add three-digit numbers: with regrouping NWW
3.3: Addition With Regrouping in Ones, Tens, and Hundreds	<ol style="list-style-type: none">1. Add two numbers up to four digits P2Q2. Add two numbers up to four digits: word problems CNN <p><i>Also consider</i></p> <ul style="list-style-type: none">• Addition up to four digits: fill in the missing digits LPZ

Chapter 4

Subtraction up to 10,000

Textbook section	IXL skills
4.1: Subtraction Without Regrouping	1. Subtract four-digit numbers: without regrouping TF9
4.2: Subtraction with Regrouping in Hundreds and Thousands	1. Subtract four-digit numbers: with regrouping GQC
4.3: Subtraction with Regrouping in Ones, Tens, Hundreds, and Thousands	1. Subtract numbers with four or more digits Y57 2. Subtract numbers up to three digits: word problems K88 3. Subtraction: fill in the missing digits V63 <i>Also consider</i> <ul style="list-style-type: none"> Two-step addition and subtraction word problems CBA Complete the subtraction sentence: up to three digits MD8 Balance subtraction equations: up to three digits 8VK
4.4: Subtraction Across Zeros	1. Subtract across zeros 93U

Chapter 5

Using Bar Models: Addition and Subtraction

Textbook section	IXL skills
5.1: Real World Problems: Addition and Subtraction	1. Comparison word problems with addition and subtraction 5L2

Chapter 6

Multiplication Tables of 6, 7, 8, and 9

Textbook section	IXL skills
6.1: Multiplication Properties	1. Write multiplication sentences for number lines NTV <i>Also consider</i> <ul style="list-style-type: none"> Identify multiplication expressions for equal groups 9AE Relate addition and multiplication for equal groups GGC Identify multiplication expressions for arrays HZL
6.2: Multiply by 6	1. Multiply by 6 SX6 <i>Also consider</i> <ul style="list-style-type: none"> Write multiplication sentences for equal groups V98 Write multiplication sentences for arrays 5FZ
6.3: Multiply by 7	1. Multiply by 7 9PT <i>Also consider</i> <ul style="list-style-type: none"> Make arrays to model multiplication PPR
6.4: Multiply by 8	1. Multiply by 8 SMR
6.5: Multiply by 9	1. Multiply by 9 SUH <i>Also consider</i> <ul style="list-style-type: none"> Multiplication facts up to 10: find the missing factor FZA Multiplication facts up to 10: select the missing factors WZA Multiplication sentences up to 10: true or false? MTU
6.6: Division: Finding the Number of Items in Each Group	1. Write division sentences for groups FSX 2. Relate multiplication and division for groups FTU

6.7: Division: Making Equal Groups

1. Division facts for 6, 7, 8, and 9 U2C
2. Division word problems ECS

Also consider

- Division facts for 6, 7, 8, and 9: true or false? DBB
 - Division facts for 6, 7, 8, and 9: sorting KQR
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Chapter 7

Multiplication

Textbook section	IXL skills
7.1: Mental Multiplication	<ol style="list-style-type: none">1. Multiply by a multiple of ten MS62. Multiply numbers ending in zeroes 83B <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiplication tables up to 10 PNV• Multiplication patterns over increasing place values DC9
7.2: Multiplying Without Regrouping	<ol style="list-style-type: none">1. Multiply by one-digit numbers: without regrouping 8D6
7.3: Multiplying Ones, Tens, and Hundreds with Regrouping	<ol style="list-style-type: none">1. Multiply by one-digit numbers: with regrouping RFK <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiply one-digit numbers by two-digit numbers using area models II QXM• Multiply one-digit numbers by three-digit numbers using area models II HQP

Chapter 8

Division

Textbook section	IXL skills
8.1: Mental Division	<ol style="list-style-type: none"> 1. Division facts up to 10 M8T 2. Divide numbers ending in zeroes PTM 3. Relate multiplication and division 67L <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Division facts up to 10: find the missing number HE7 • Division facts up to 10: select the missing numbers FPA • Division patterns over increasing place values WRN
8.2: Quotient and Remainder	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers using arrays M5U 2. Division word problems involving remainders RE8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide using repeated subtraction XK6
8.3: Odd and Even Numbers	<ol style="list-style-type: none"> 1. Even or odd U9Q
8.4: Division without Remainder and Regrouping	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers: without remainders M8L
8.5: Division with Regrouping in Tens and Ones	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers: with remainders ZBE 2. Divide 2-digit numbers by 1-digit numbers: interpret remainders KEM

Chapter 9

Using Bar Models: Multiplication and Division

Textbook section	IXL skills
9.1: Real-World Problems: Multiplication	<ol style="list-style-type: none">1. Multiply one-digit numbers by two-digit numbers: word problems X5D2. Multiply one-digit numbers by three-digit numbers: word problems 9GD
9.2: Real-World Problems: Two-step Problems with Multiplication	
9.3: Real-World Problems: Division	<ol style="list-style-type: none">1. Divide 2-digit numbers by 1-digit numbers: word problems C6T <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiplication and division word problems 85K
9.4: Real-World Problems: Two-step Problems with Division	<ol style="list-style-type: none">1. Use strip diagrams to represent and solve multi-step word problems W9Y2. Two-step multiplication and division word problems 8FP <p><i>Also consider</i></p> <ul style="list-style-type: none">• Two-step mixed operation word problems SRL

Chapter 10

Money

Textbook section	IXL skills
10.1: Addition	<ol style="list-style-type: none">1. Add money amounts 4Y52. Add money amounts - word problems BK6 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which picture shows more? JUW
10.2: Subtraction	<ol style="list-style-type: none">1. Subtract money amounts RRD2. Subtract money amounts: word problems 6FD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Correct amount of change 8KD• Making change TF7
10.3: Real-World Problems: Money	<ol style="list-style-type: none">1. Add and subtract money amounts: multi-step word problems D7C <p><i>Also consider</i></p> <ul style="list-style-type: none">• Price lists 3Z6

Chapter 11

Metric Length, Mass, and Volume

Textbook section	IXL skills
11.1: Meters and Centimeters	<ol style="list-style-type: none">1. Convert metric units of length: centimeters and meters LG72. Convert metric mixed units of length: centimeters and meters QYA <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare metric units of length: centimeters and meters QMH• Which metric unit of length is appropriate? YWR
11.2: Kilometers and Meters	<ol style="list-style-type: none">1. Convert metric units of length: kilometers and meters HCD2. Convert metric mixed units of length: kilometers and meters VTQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare metric units of length: kilometers and meters 7JW
11.3: Kilograms and Grams	<ol style="list-style-type: none">1. Compare and convert metric units of weight C9Z2. Convert metric mixed units of weight WC9 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which metric unit of weight is appropriate? PTF
11.4: Liters and Milliliters	<ol style="list-style-type: none">1. Compare and convert metric units of volume RK22. Convert metric mixed units of volume R8Z <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which metric unit of volume is appropriate? LYS• Conversion tables - metric units 8NZ

Chapter 12

Real-World Problems: Measurement

Textbook section	IXL skills
12.1: Real-World Problems: One-Step Problems	1. Measurement word problems VPW
12.2: Real-World Problems: Two-Step Problems	

Chapter 13

Bar Graphs and Line Plots

Textbook section	IXL skills
13.1: Making Bar Graphs with Scales	<ol style="list-style-type: none">1. Create bar graphs RPF <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret pictographs Y5D• Interpret tally charts 8CW
13.2: Reading and Interpreting Bar Graphs	<ol style="list-style-type: none">1. Interpret bar graphs V542. Use bar graphs to solve problems BCJ
13.3: Line Plots	<ol style="list-style-type: none">1. Interpret line plots YXD2. Create line plots H5J

Chapter 14

Fractions

Textbook section	IXL skills
14.1: Understanding Fractions	<ol style="list-style-type: none"> 1. Understand fractions using fraction bars: denominators up to 12 7RD 2. Understand fractions using area models: denominators up to 12 GBK <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Make halves, thirds, fourths, sixths, and eighths JHE • Identify fractions on number lines AWH • Match fractions to models YHL • Show fractions: fraction bars ZPW • Show fractions: area models NLE
14.2: Understanding Equivalent Fractions	<ol style="list-style-type: none"> 1. Find equivalent fractions using two models: denominators up to 12 H5V 2. Find equivalent fractions using number lines JL8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find equivalent fractions using area models: one model 6DY • Identify equivalent fractions on number lines HYM
14.3: More Equivalent Fractions	<ol style="list-style-type: none"> 1. Identify equivalent fractions CJQ 2. Find equivalent fractions WMX 3. Write fractions in lowest terms YM2
14.4: Comparing Fractions	<ol style="list-style-type: none"> 1. Compare fractions using models MJ2 2. Compare fractions using number lines 38T 3. Compare fractions using benchmarks D8B 4. Compare fractions 78D 5. Graph and order fractions on number lines T7E 6. Order fractions GBA

Also consider

- Graph and compare fractions on number lines 6H5
- Compare fractions in recipes 9BK

14.5: Fractions as a Whole or Set

1. Fractions of a group: word problems Z65
2. Fractions of a number: word problems 9HF

Also consider

- Find fractions equivalent to whole numbers KCE
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Chapter 15

Customary Length, Weight, and Capacity

Textbook section	IXL skills
15.1: Measuring Length	<ol style="list-style-type: none">1. Measure using an inch ruler LC22. Which customary unit of length is appropriate? WRB <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare and convert customary units of length TVE
15.2: Measuring Weight	<ol style="list-style-type: none">1. Which customary unit of weight is appropriate? GK8 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare and convert customary units of weight WXA
15.3: Measuring Capacity	<ol style="list-style-type: none">1. Which unit of volume is appropriate: ounces, cups, pints, quarts, or gallons? FMR <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare and convert customary units of volume MRB• Conversion tables - customary units PSV• Compare customary units by multiplying WK7

Chapter 16

Time and Temperature

Textbook section	IXL skills
16.1: Telling Time	1. Match clocks and times LPT <i>Also consider</i> <ul style="list-style-type: none"> • Read clocks and write times 5ZQ • Write times EQS • A.M. or P.M. MUC
16.2: Converting Hours and Minutes	1. Convert mixed time units 63G
16.3: Adding Hours and Minutes	1. Add mixed time units D73
16.4: Subtracting Hours and Minutes	1. Subtract mixed time units SDD
16.5: Elapsed Time	1. Elapsed time: find the end time U7B 2. Elapsed time word problems: find the elapsed time V9D
16.6: Measuring Temperature	1. Read a Fahrenheit thermometer KL9 2. Reasonable temperature in degrees Fahrenheit QWY
16.7: Real-World Problems: Time and Temperature	1. Elapsed time word problems: find the end time 5VC

Chapter 17

Angles and Lines

Textbook section	IXL skills
17.1: Understanding and Identifying Angles	
17.2: Right Angles	1. Angles greater than, less than, or equal to a right angle 2YR
17.3: Perpendicular Lines	1. Perpendicular lines EB7
17.4: Parallel Lines	1. Parallel lines 3E7

Chapter 18

Two-Dimensional Shapes

Textbook section	IXL skills
18.1: Classifying Polygons	<ol style="list-style-type: none">1. Is it a polygon? C2P2. Count and compare sides and vertices GWA3. Draw quadrilaterals 5KS <p><i>Also consider</i></p> <ul style="list-style-type: none">• Open and closed shapes 9PS• Classify quadrilaterals CNJ
18.2: Congruent Figures	<ol style="list-style-type: none">1. Flip, turn, and slide KM92. Identify congruent shapes VPS
18.3: Symmetry	<ol style="list-style-type: none">1. Symmetry STQ

Chapter 19

Area and Perimeter

Textbook section	IXL skills
19.1: Area	<ol style="list-style-type: none"> Find the area of figures made of unit squares FLQ Tile a rectangle and find the area EKK Multiply to find the area of a rectangle made of unit squares S7G
19.2: Square Units (cm ² and in. ²)	<ol style="list-style-type: none"> Select two figures with the same area 7GW Area of figures on grids J93 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Create figures with a given area Z2H Create rectangles with a given area V73
19.3: Square Units (m ² and ft ²)	<ol style="list-style-type: none"> Select figures with a given area XR6 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find the area of rectangles and squares 8KJ Find the area of rectangles: word problems 5HA
19.4: Perimeter and Area	<ol style="list-style-type: none"> Perimeter of rectangles ZJT Perimeter of rectilinear shapes 65Z Find the areas of complex figures by dividing them into rectangles DVB Find the area of complex figures SGP <p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare area and perimeter of two figures PMF
19.5: More Perimeter	<ol style="list-style-type: none"> Perimeter of polygons LLY Perimeter: word problems CLD <p><i>Also consider</i></p> <ul style="list-style-type: none"> Perimeter: find the missing side length T2V