



IXL Skill Alignment

2nd grade alignment for Math in Focus (2013)



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Chapter 1

Numbers to 1,000

Textbook section	IXL skills
1.1: Counting	<ol style="list-style-type: none"> Place value models - up to hundreds PBX Count by tens and hundreds Z8G
1.2: Place Value	<ol style="list-style-type: none"> Convert to/from a number - up to hundreds HUX Convert from expanded form - up to hundreds LG5 Writing numbers up to 1,000 in words - convert words to digits JKD Writing numbers up to 1,000 in words - convert digits to words VPQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify a digit up to the hundreds place 45U Place value - up to hundreds BDF Convert between place values - ones, tens, and hundreds M6X
1.3: Comparing Numbers	<ol style="list-style-type: none"> Comparing numbers up to 1,000 XF9
1.4: Order and Pattern	<ol style="list-style-type: none"> Number lines - up to 1,000 KFQ Put numbers up to 1,000 in order 3N2 Count by ones, tens, and hundreds SVE <p><i>Also consider</i></p> <ul style="list-style-type: none"> Greatest and least - word problems - up to 1,000 6QX

Chapter 2

Addition up to 1,000

Textbook section	IXL skills
2.1: Addition and Subtraction Facts Within 20	<ol style="list-style-type: none"> 1. Add one-digit numbers 5C6 2. Subtract a one-digit number from a two-digit number up to 18 HSU 3. Make ten to add YJE 4. Add using doubles plus or minus one A8U <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add doubles 8Z7 • Balance addition equations - sums to 20 6LC • Addition sentences: which is true? GMN
2.2: Addition Without Regrouping	<ol style="list-style-type: none"> 1. Use models to add three-digit numbers - without regrouping Q7V 2. Add three-digit numbers - without regrouping Y2U
2.3: Addition with Regrouping in Ones	<ol style="list-style-type: none"> 1. Use models to add two-digit numbers - with regrouping QL8 2. Add two-digit numbers with regrouping - sums to 100 GLX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition word problems - up to two digits XAT
2.4: Addition with Regrouping in Tens	<ol style="list-style-type: none"> 1. Use models to add three-digit numbers - with regrouping KUG <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add multiples of 10 or 100 RCJ • Regroup tens and ones 5LV
2.5: Addition with Regrouping in Ones and Tens	<ol style="list-style-type: none"> 1. Add three-digit numbers - with regrouping 7G7 2. Addition word problems - up to three digits UV2 3. Complete the addition sentence - up to three digits R5W

Also consider

- Addition up to three digits - fill in the missing digits 7AT
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Chapter 3

Subtraction up to 1,000

Textbook section	IXL skills
3.1: Subtraction Without Regrouping	1. Subtract three-digit numbers - without regrouping EFL <i>Also consider</i> <ul style="list-style-type: none"> Ways to make a number using subtraction DTN Complete the subtraction sentence - up to two digits YWC
3.2: Subtraction with Regrouping in Tens and Ones	1. Subtract two two-digit numbers - with regrouping TWE 2. Subtraction word problems - up to two digits UFU <i>Also consider</i> <ul style="list-style-type: none"> Subtract multiples of 10 or 100 VVM
3.3: Subtraction with Regrouping in Hundreds and Tens	1. Subtract three-digit numbers - with regrouping E8A
3.4: Subtraction with Regrouping in Hundreds, Tens, and Ones	1. Subtract three-digit numbers ZVR 2. Subtraction word problems - up to three digits ZMA <i>Also consider</i> <ul style="list-style-type: none"> Complete the subtraction sentence - up to three digits MDY Balance subtraction equations - up to three digits LSU Addition and subtraction - ways to make a number - up to 100 8WA
3.5: Subtraction Across Zeros	1. Subtract across zeros 9G5 <i>Also consider</i> <ul style="list-style-type: none"> Addition and subtraction - balance equations - up to 100 KSG

Chapter 4

Use Bar Models: Addition and Subtraction

Textbook section	IXL skills
4.1: Using Part-Part-Whole in Addition and Subtraction	1. Addition and subtraction word problems - up to 100 MEP
4.2: Adding On and Taking Away Sets	1. Addition and subtraction word problems - up to 1,000 MJB
4.3: Comparing Two Sets	
4.4: Real-World Problems: Two-Step Problems	1. Two-step addition and subtraction word problems YZT

Chapter 5

Multiplication and Division

Textbook section	IXL skills
5.1: How to Multiply	<ol style="list-style-type: none">1. Count equal groups LHS2. Identify multiplication sentences for equal groups S7X3. Write multiplication sentences for equal groups A864. Relate addition and multiplication for equal groups NFF
5.2: How to Divide	<ol style="list-style-type: none">1. Divide by counting equal groups MTV2. Write division sentences for groups VGQ3. Divide using repeated subtraction M2W <p><i>Also consider</i></p> <ul style="list-style-type: none">• Divisors and quotients up to 5 DCJ
5.3: Real-World Problems: Multiplication and Division	<ol style="list-style-type: none">1. Multiplication and division word problems CXZ

Chapter 6

Multiplication Tables of 2, 5, and 10

Textbook section	IXL skills
6.1: Multiplying 2: Skip-Counting	<ol style="list-style-type: none"> 1. Skip-counting by twos LK2 2. Multiply by 2 8K3
6.2: Multiplying 2: Using Dot Paper	<ol style="list-style-type: none"> 1. Write multiplication sentences for arrays: multiply by 2 EWW
6.3: Multiplying 5: Skip-Counting	<ol style="list-style-type: none"> 1. Skip-counting by fives VHG 2. Multiply by 5 W46 3. Skip counting sequences: count by fives S2F
6.4: Multiplying 5: Using Dot Paper	<ol style="list-style-type: none"> 1. Write multiplication sentences for arrays: multiply by 5 PT8
6.5: Multiplying 10: Skip-Counting and Using Dot Paper	<ol style="list-style-type: none"> 1. Skip-counting by tens 5PY 2. Multiply by 10 23Q <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Skip-counting stories SSL • Count forward and backward by twos, fives, and tens PVB • Skip-counting puzzles U6J
6.6: Odd and Even Numbers	<ol style="list-style-type: none"> 1. Even or odd 54Z 2. Add doubles - complete the sentence S46 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Even or odd numbers on number lines S8E • Select even or odd numbers JLX • Which even or odd number comes before or after? CJK

Chapter 7

Metric Measurement of Length

Textbook section	IXL skills
7.1: Measuring in Meters	
7.2: Comparing Lengths in Meters	
7.3: Measuring in Centimeters	1. Measure using a centimeter ruler 7WA
7.4: Comparing Lengths in Centimeters	1. Which metric unit of length is appropriate? SKH
7.5: Real-World Problems: Metric Length	1. Metric units of length: word problems KJ5

Chapter 8

Mass

Textbook section	IXL skills
8.1: Measuring in Kilograms	
8.2: Comparing Mass in Kilograms	1. Light and heavy 2PK
8.3: Measuring in Grams	1. Which metric unit of weight is appropriate? 7WD
8.4: Comparing Masses in Grams	
8.5: Real-World Problems: Mass	

Chapter 9

Volume

Textbook section	IXL skills
9.1: Getting to Know Volume	1. Holds more or less RMP
9.2: Measuring in Liters	
9.3: Real-World Problems: Volume	1. Measurement word problems RXL

Chapter 10

Mental Math and Estimation

Textbook section	IXL skills
10.1: Meaning of Sum	<ol style="list-style-type: none">1. Addition terms PHJ2. Addition with three-digit numbers ETW <p><i>Also consider</i></p> <ul style="list-style-type: none">• Ways to make a number using addition S5E
10.2: Mental Addition	<ol style="list-style-type: none">1. Use compensation to add - up to three digits 89B2. Add with a multiple of 10 or 100 LJ83. Add a one-digit number and a two-digit or three-digit number FJX
10.3: Meaning of Difference	<ol style="list-style-type: none">1. Subtraction terms E7R2. Subtract with two-digit and three-digit numbers FXZ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Ways to make a number using subtraction DTN
10.4: Mental Subtraction	<ol style="list-style-type: none">1. Subtract a multiple of 10 or 100 S2A2. Subtract a one-digit number from a two-digit or three-digit number N98
10.5: Rounding Numbers to Estimate	<ol style="list-style-type: none">1. Round to the nearest ten using a number line LN82. Estimate sums 7R33. Estimate differences 59S

Chapter 11

Money

Textbook section	IXL skills
11.1: Coins and Bills	<ol style="list-style-type: none">1. Count money up to \$100 3T62. Equivalent amounts of money - up to \$1 MGA3. Exchanging money - with pictures VZD
11.2: Comparing Amounts of Money	<ol style="list-style-type: none">1. Compare money amounts DYJ2. Put money amounts in order CR93. Which picture shows more - up to \$5 39E <p><i>Also consider</i></p> <ul style="list-style-type: none">• Comparing groups of coins FVT
11.3: Real-World Problems: Money	<ol style="list-style-type: none">1. Add and subtract money - up to \$1: word problems N5Y <p><i>Also consider</i></p> <ul style="list-style-type: none">• Purchases - do you have enough money - up to \$5 W79• How much more to make a dollar? V9L• Correct amount of change LQ7

Chapter 12

Fractions

Textbook section	IXL skills
12.1: Understanding Fractions	<ol style="list-style-type: none">1. Equal parts H5R2. Identify halves, thirds, and fourths 24W3. Identify the unit fraction 8HR <p><i>Also consider</i></p> <ul style="list-style-type: none">• Make halves, thirds, and fourths QD2
12.2: Comparing Fractions	<ol style="list-style-type: none">1. Fractions of a whole: modeling word problems JSE2. Fractions of a whole: word problems K8M <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare unit fractions using models A8X
12.3: Adding and Subtracting Like Fractions	<ol style="list-style-type: none">1. Identify the fraction PEJ2. Add and subtract fractions with like denominators TTN

Chapter 13

Customary Measurement of Length

Textbook section	IXL skills
13.1: Measuring in Feet	
13.2: Comparing Lengths in Feet	
13.3: Measuring in Inches	1. Measure using an inch ruler 88A
13.4: Comparing Lengths in Inches and Feet	1. Which customary unit of length is appropriate: inches or feet? 5XG
13.5: Real-World Problems: Customary Length	1. Customary units of length: word problems GSF

Chapter 14

Time

Textbook section	IXL skills
14.1: The Minute Hand	<ol style="list-style-type: none">1. Read clocks and write times: fill in the minutes NHX
14.2: Reading and Writing Time	<ol style="list-style-type: none">1. Match digital clocks and times 36N2. Match analog clocks and times D9K3. Read clocks and write times K7F <p><i>Also consider</i></p> <ul style="list-style-type: none">• Match analog and digital clocks HKL• Time words: o'clock, half, quarter 5TA
14.3: Using A.M. and P.M.	<ol style="list-style-type: none">1. A.M. or P.M. EJV <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare clocks UFP
14.4: Elapsed Time	<ol style="list-style-type: none">1. Elapsed time I UDE2. Elapsed time II L9C <p><i>Also consider</i></p> <ul style="list-style-type: none">• Time patterns 99J

Chapter 15

Multiplication Tables of 3 and 4

Textbook section	IXL skills
15.1: Multiplying 3: Skip-Counting	<ol style="list-style-type: none">1. Multiply by 3 X6X2. Skip counting sequences: count by threes TKF
15.2: Multiplying 3: Using Dot Paper	<ol style="list-style-type: none">1. Write multiplication sentences for arrays: multiply by 3 XTZ
15.3: Multiplying 4: Skip-Counting	<ol style="list-style-type: none">1. Multiply by 4 YG62. Skip counting sequences: count by fours 52V
15.4: Multiplying 4: Using Dot Paper	<ol style="list-style-type: none">1. Write multiplication sentences for arrays: multiply by 4 S9E
15.5: Divide Using Related Multiplication Facts	<ol style="list-style-type: none">1. Relate multiplication and division for groups ZKU2. Relate multiplication and division PSU

Chapter 16

Using Bar Models: Multiplication and Division

Textbook section	IXL skills
16.1: Real-World Problems: Multiplication	1. Multiplication word problems WMZ
16.2: Real-World Problems: Division	1. Division word problems 2CW
16.3: Real-World Problems: Measurement and Money	

Chapter 17

Graphs and Line Plots

Textbook section	IXL skills
17.1: Reading Picture Graphs with Scales	1. Introduction to pictographs S7A
17.2: Making Picture Graphs	1. Create pictographs DFP
17.3: Real-World Problems: Picture Graphs	1. Interpret pictographs N9Z
17.4: Bar Graphs and Line Plots	1. Interpret bar graphs I RPD 2. Interpret bar graphs II 8CH 3. Create bar graphs 6KD 4. Interpret line plots HY6 5. Create line plots F2U

Chapter 18

Lines and Surfaces

Textbook section

IXL skills

18.1: Parts of Lines and Curves

1. Curved parts HXX
2. Identify shapes traced from solids MRD

18.2: Flat and Curved Surfaces

1. Name the three-dimensional shape 9E9

Also consider

- Shapes of everyday objects I 9VC
- Shapes of everyday objects II 63Q

Chapter 19

Shapes and Patterns

Textbook section	IXL skills
19.1: Plane Shapes	<ol style="list-style-type: none">1. Name the two-dimensional shape 2FK2. Select two-dimensional shapes DWL3. Compose two-dimensional shapes QPK <p><i>Also consider</i></p> <ul style="list-style-type: none">• Count sides and vertices EAQ• Compare sides and vertices G9N
19.2: Solid Shapes	<ol style="list-style-type: none">1. Select three-dimensional shapes FAL2. Count faces of three-dimensional shapes 7XH <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify faces of three-dimensional shapes QSR
19.3: Making Patterns	<ol style="list-style-type: none">1. Find the next shape in a repeating pattern PE82. Complete a repeating pattern VJB3. Make a repeating pattern S8Y <p><i>Also consider</i></p> <ul style="list-style-type: none">• Growing patterns DLR• Find the next shape in a growing pattern HFY• Find the next row in a growing pattern YR2