



IXL Skill Alignment

3rd grade alignment for Sadlier Math



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Chapter 1

Number Sense

Textbook section	IXL skills
1-1: Read and Write Multidigit Numbers	<ol style="list-style-type: none"> Place value models up to hundreds EQU Write numbers in words 2GW Convert between standard and expanded form: up to 1,000 BMB <p><i>Also consider</i></p> <ul style="list-style-type: none"> Convert to/from a number KSN
1-2: Understand the Number Line	<ol style="list-style-type: none"> Number lines up to 1,000 LVA Addition and subtraction sentences using number lines: up to 20 GKS <p><i>Also consider</i></p> <ul style="list-style-type: none"> Skip-counting sequences 5FD
1-3: Compare and Order Numbers	<ol style="list-style-type: none"> Compare numbers up to 1,000 N8G Order numbers X92 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Which number is greatest/least? UG2
1-4: Round Numbers to the Nearest Ten	<ol style="list-style-type: none"> Round to the nearest ten JDN
1-5: Round Numbers to the Nearest Hundred	<ol style="list-style-type: none"> Round using a number line - nearest ten or hundred 6ST Rounding - nearest ten or hundred only Q65
1-6: Problems Solving: Use the Four-Step Process	<ol style="list-style-type: none"> Estimate sums: word problems WB2 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Rounding puzzles SFM

Chapter 2

Addition Within 1000

Textbook section	IXL skills
2-1: Use Addition Properties	<ol style="list-style-type: none"> 1. Properties of addition NY2 2. Complete the equation using properties of addition CGS <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add using properties KYA
2-2: Explore Addition Patterns	<ol style="list-style-type: none"> 1. Even or odd U9Q 2. Even or odd: addition patterns FYF
2-3: Estimate Sums	<ol style="list-style-type: none"> 1. Estimate sums up to 1,000 3Y9 2. Estimate sums by rounding to the nearest ten: word problems QM2
2-4: Add with Partial Sums	<ol style="list-style-type: none"> 1. Add three-digit numbers: without regrouping 96M
2-5: Use Place Value to Add: Regroup Once	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83
2-6: Use Place Value to Add: Regroup Twice	<ol style="list-style-type: none"> 1. Add three-digit numbers: with regrouping 9NH 2. Add two numbers up to three digits: word problems QU2 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition input/output tables: up to three digits MUE • Addition up to three digits: fill in the missing digits LYB
2-7: Add with Three or More Addends	<ol style="list-style-type: none"> 1. Add three numbers up to three digits each GSY 2. Add three numbers up to three digits each: word problems NPU
2-8: Problem Solving: Use a Model	<ol style="list-style-type: none"> 1. Add data from tables: up to three digits MYM

Also consider

- Balance addition equations: up to three digits 7PE
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Chapter 3

Subtraction Within 1000

Textbook section	IXL skills
3-1: Estimate Differences	<ol style="list-style-type: none"> 1. Estimate differences up to 1,000 A47 2. Estimate differences: word problems M42
3-2: Relate Addition and Subtraction	<ol style="list-style-type: none"> 1. Relate addition and subtraction sentences NYD 2. Complete the addition sentence: up to three digits D69 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the subtraction sentence: up to three digits MD8
3-3: Subtract with Partial Differences	<ol style="list-style-type: none"> 1. Subtract three-digit numbers: without regrouping NVN <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract multiples of 10 or 100 PF2 • Subtraction input/output tables: up to three digits J9S
3-4: Subtract Three-Digit Numbers	<ol style="list-style-type: none"> 1. Subtract numbers up to three digits EHT 2. Subtract numbers up to three digits: word problems K88 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtraction: fill in the missing digits V63
3-5: Subtract Across Zeros	<ol style="list-style-type: none"> 1. Subtract across zeros 93U
3-6: Problem Solving: Write and Solve an Equation	<ol style="list-style-type: none"> 1. Addition and subtraction word problems XSH 2. Two-step addition and subtraction word problems CBA <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Balance subtraction equations: up to three digits 8VK

Chapter 4

Multiplication and Division Concepts

Textbook section	IXL skills
4-1: Represent Multiplication as Repeated Addition	<ol style="list-style-type: none"> 1. Relate addition and multiplication for equal groups GGC 2. Relate addition and multiplication P74 3. Write multiplication sentences for equal groups V98 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify multiplication expressions for equal groups 9AE • Count equal groups 9K7
4-2: Represent Multiplication on a Number Line	<ol style="list-style-type: none"> 1. Write multiplication sentences for number lines NTV <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Skip-counting LQM
4-3: Represent Multiplication as Arrays	<ol style="list-style-type: none"> 1. Identify multiplication expressions for arrays HZL 2. Write multiplication sentences for arrays 5FZ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Make arrays to model multiplication PPR • Identify repeated addition in arrays: sums to 25 ER2
4-4: Multiply with the Commutative Property	
4-5: Represent Division by Sharing	<ol style="list-style-type: none"> 1. Divide by counting equal groups UYK 2. Write division sentences for groups FSX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write division sentences for arrays 8RW • Addition, subtraction, multiplication, and division terms E58
4-6: Represent Division by Repeated Subtraction	<ol style="list-style-type: none"> 1. Divide using repeated subtraction V5C

4-7: Problem Solving: Write an Equation

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

Multiplication Facts

Textbook section	IXL skills
5-1: Multiply by 2	1. Multiply by 2 94M
5-2: Multiply by 5	1. Multiply by 5 Y9E
5-3: Multiply by 9	1. Multiply by 9 SUH
5-4: Multiply by 1 and 0	1. Multiply by 1 and 0 CNG
5-5: Multiply by 10	1. Multiply by 10 6YD
5-6: Find Patterns in the Multiplication Table	
5-7: Solve for Unknowns	1. Multiplication facts for 1, 2, 5, 9, and 10: find the missing factor 7FN <i>Also consider</i> <ul style="list-style-type: none">• Multiplication word problems: find the missing number UAD
5-8: Problem Solving: Use a Model	1. Multiplication word problems: factors up to 5 HDU

Chapter 6

More Multiplication Facts

Textbook section	IXL skills
6-1: Break Apart to Multiply	1. Distributive property: fill in the missing number 7UP
6-2: Multiply by 3	1. Multiply by 3 38K
6-3: Multiply by 4	1. Multiply by 4 5U6 <i>Also consider</i> <ul style="list-style-type: none"> • Multiplication tables for 2, 3, 4, 5, and 10 DW5 • Multiplication facts for 2, 3, 4, 5, and 10: true or false? 87M • Multiplication facts for 2, 3, 4, 5, and 10: sorting REN • Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY
6-4: Multiply by 6	1. Multiply by 6 SX6
6-5: Multiply by 7	1. Multiply by 7 9PT
6-6: Multiply by 8	1. Multiply by 8 SMR <i>Also consider</i> <ul style="list-style-type: none"> • Multiplication tables for 6, 7, 8, and 9 XT7 • Multiplication facts for 6, 7, 8, and 9: true or false? EEY • Multiplication facts for 6, 7, 8, and 9: sorting TZ7 • Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N
6-7: Use a Bar Model to Multiply	1. Multiplication word problems 9TA
6-8: Problem Solving: Make a Table	1. Two-step mixed operation word problems SRL <i>Also consider</i> <ul style="list-style-type: none"> • Multiplication facts up to 10: true or false? 3K8

- Multiplication facts up to 10: sorting SUJ
- Multiplication input/output tables 8CM

6-9: Use the Associative Property to Multiply

1. Properties of multiplication MPE
2. Solve using properties of multiplication YPF

6-10: Find More Multiplication Patterns

1. Even or odd: multiplication patterns WS2

6-11: Multiply by Multiples of 10

1. Multiply by a multiple of ten MS6
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Chapter 7

Division Facts

Textbook section	IXL skills
7-1: Relate Multiplication and Division	<ol style="list-style-type: none">1. Relate multiplication and division for arrays XSK2. Relate multiplication and division for groups FTU3. Relate multiplication and division 67L
7-2: Divide by 2	<ol style="list-style-type: none">1. Divide by 2 ANU
7-3: Divide by 3	<ol style="list-style-type: none">1. Divide by 3 PCL
7-4: Divide by 4	<ol style="list-style-type: none">1. Divide by 4 QGT
7-5: Divide by 5	<ol style="list-style-type: none">1. Divide by 5 C9M <p><i>Also consider</i></p> <ul style="list-style-type: none">• Division facts for 2, 3, 4, 5, and 10 2JB
7-6: Problem Solving: Use Drawings to Solve Problems	<ol style="list-style-type: none">1. Division word problems: divisors and quotients up to 5 CFR

Chapter 8

More Division Facts

Textbook section	IXL skills
8-1: Divide by 6	1. Divide by 6 97S
8-2: Divide by 7	1. Divide by 7 D2F
8-3: Divide by 8	1. Divide by 8 CVD
8-4: Divide by 9	1. Divide by 9 RTB 2. Division word problems ECS <i>Also consider</i> <ul style="list-style-type: none"> • Division facts for 6, 7, 8, and 9 U2C • Division facts for 6, 7, 8, and 9: true or false? DBB • Division facts for 6, 7, 8, and 9: sorting KQR
8-5: One and Zero in Division	1. Divide by 1 VTL <i>Also consider</i> <ul style="list-style-type: none"> • Multiply and divide with 1 and 0 XWR
8-6: Problem Solving: Work Backward	
8-7: Fact Families	1. Multiplication facts up to 10: find the missing factor FZA 2. Division facts up to 10: find the missing number HE7 3. Multiplication facts up to 10: select the missing factors WZA 4. Division facts up to 10: select the missing numbers FPA <i>Also consider</i> <ul style="list-style-type: none"> • Multiplication and division facts up to 10: true or false? WQT

8-8: Use Facts to Solve Problems

1. Multiplication and division word problems 85K
2. Two-step multiplication and division word problems 8FP

Also consider

- Multiplication word problems: find the missing factor F6C
- Write variable equations to represent word problems: multiplication and division only ZNN

8-9: Use Order of Operations

1. Perform multiple operations with whole numbers UKB

Chapter 9

Fraction Concepts

Textbook section	IXL skills
9-1: Understand Equal Parts	<ol style="list-style-type: none"> 1. Identify equal parts FHY 2. Match fraction words to models P6L
9-2: Name Unit Fractions of a Whole	<ol style="list-style-type: none"> 1. Match unit fractions to models CPK 2. Unit fractions: word problems HM7 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Unit fractions: modeling word problems UV8
9-3: Find Unit Fractions on a Number Line	<ol style="list-style-type: none"> 1. Fractions of number lines: unit fractions TBX 2. Identify unit fractions on number lines JVC 3. Graph unit fractions on number lines CBW
9-4: Name Fractions of a Whole	<ol style="list-style-type: none"> 1. Understand fractions: fraction bars 6JL 2. Show fractions: fraction bars ZPW 3. Match fractions to models YHL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Show fractions: area models NLE
9-5: Find Fractions on a Number Line	<ol style="list-style-type: none"> 1. Identify fractions on number lines AWH 2. Graph fractions on number lines 7QM <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Fractions of number lines J8M
9-6: Use a Fraction to Find the Whole	<ol style="list-style-type: none"> 1. Make halves, thirds, fourths, sixths, and eighths JHE
9-7: Problem Solving: Use a Model	<ol style="list-style-type: none"> 1. Fractions of a whole: modeling word problems 9PU 2. Fractions of a whole: word problems BV7

Chapter 10

Fractions: Comparison and Equivalence

Textbook section	IXL skills
10-1: Whole Numbers and Fractions	<ol style="list-style-type: none"> Graph fractions equivalent to 1 on number lines 7BL Find fractions equivalent to whole numbers CPZ Select fractions equivalent to whole numbers using area models GKZ
10-2: Find Equivalent Fractions	<ol style="list-style-type: none"> Find equivalent fractions using area models: one model 6DY Find equivalent fractions WMX <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find equivalent fractions using area models: two models ZJ2
10-3: Find Equivalent Fractions on a Number Line	<ol style="list-style-type: none"> Find equivalent fractions using number lines JL8 Identify equivalent fractions 7DA <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify equivalent fractions on number lines HYM Graph equivalent fractions on number lines WPQ
10-4: Compare Fractions with the Same Denominator	<ol style="list-style-type: none"> Graph and compare fractions with like denominators on number lines 63U Compare fractions with like denominators using models TDE Compare fractions with like denominators 8SU <p><i>Also consider</i></p> <ul style="list-style-type: none"> Graph smaller or larger fractions on a number line 2PH Order fractions with like denominators HYZ
10-5: Compare Fractions with the Same Numerator	<ol style="list-style-type: none"> Graph and compare fractions with like numerators on number lines ZPD Compare fractions with like numerators using models RGM

3. Compare fractions with like numerators 7LX

Also consider

- Compare fractions using models MJ2
- Order fractions with like numerators PCW

10-6: Order Fractions

1. Graph and order fractions on number lines T7E

2. Order fractions GBA

10-7: Problem Solving: Act It Out

1. Compare fractions 78D

Also consider

- Compare fractions in recipes 9BK
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Chapter 11

Measurement

Textbook section	IXL skills
11-1: Measure Length	<p>1. Measure using an inch ruler LC2</p> <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which customary unit of length is appropriate? WRB
11-2: Estimate and Measure Liquid Volume	<p>1. Which metric unit of volume is appropriate? LYS</p> <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which customary unit of volume is appropriate? J9R
11-3: Operations with Liquid Volume	
11-4: Estimate and Measure Mass	<p>1. Which metric unit of weight is appropriate? PTF</p> <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which customary unit of weight is appropriate? GK8
11-5: Operations with Mass	
11-6: Problem Solving: Write an Equation	<p>1. Measurement word problems VPW</p> <p><i>Also consider</i></p> <ul style="list-style-type: none">• Write variable equations to represent word problems U6P• Choose the appropriate measuring tool FTA

Chapter 12

Data

Textbook section	IXL skills
12-1: Read Picture Graphs	1. Interpret pictographs Y5D
12-2: Make Picture Graphs	1. Create pictographs AVG <i>Also consider</i> <ul style="list-style-type: none">• Interpret tally charts 8CW
12-3: Read Bar Graphs	1. Interpret bar graphs V54 2. Use bar graphs to solve problems BCJ
12-4: Make Bar Graphs	1. Create bar graphs RPF
12-5: Data and Two-Step Problems	1. Interpret bar graphs: two-step problems TLZ
12-6: Problem Solving: Use a Model	
12-7: Read Line Plots	1. Interpret line plots YXD
12-8: Make Line Plots	1. Create line plots H5J 2. Create line plots with fractions YUR

Chapter 13

Time

Textbook section	IXL skills
13-1: Tell Time to the Minute	<ol style="list-style-type: none"> 1. Match clocks and times LPT 2. Read clocks and write times 5ZQ 3. Write times EQS <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Match analog and digital clocks L5U
13-2: Measure Elapsed Time	<ol style="list-style-type: none"> 1. Find the elapsed time SCQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Elapsed time word problems: find the elapsed time V9D • A.M. or P.M. MUC
13-3: Find Start and End Times	<ol style="list-style-type: none"> 1. Elapsed time: find the end time SPX 2. Elapsed time word problems: find the end time 5VC 3. Find start and end times: two-step word problems C95
13-4: Operations with Time	<ol style="list-style-type: none"> 1. Time word problems: find the start, end, or elapsed time MNY <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Reading schedules SWU
13-5: Problem Solving: Use Logical Reasoning	<ol style="list-style-type: none"> 1. Count shapes in a Venn diagram V86 2. Sort shapes into a Venn diagram 9L6 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the order KUF

Chapter 14

Two-Dimensional Shapes

Textbook section	IXL skills
14-1: Classify Polygons	<ol style="list-style-type: none">1. Is it a polygon? C2P2. Identify two-dimensional shapes JBT3. Count and compare sides and vertices GWA
14-2: Classify Quadrilaterals	<ol style="list-style-type: none">1. Identify parallelograms V6L2. Classify quadrilaterals CNJ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Parallel sides in quadrilaterals 6E9• Identify rhombuses ZSD• Identify trapezoids 67A• Identify rectangles 47T
14-3: Draw Quadrilaterals	<ol style="list-style-type: none">1. Draw quadrilaterals 5KS
14-4: Compose and Decompose Shapes	<ol style="list-style-type: none">1. Compose two-dimensional shapes AES
14-5: Problem Solving: Make a Table	<ol style="list-style-type: none">1. Age puzzles YWU2. Shape patterns BSB

Chapter 15

Area

Textbook section	IXL skills
15-1: Understand Area	<ol style="list-style-type: none"> 1. Tile a rectangle and find the area EKK 2. Area of figures on grids J93 3. Create figures with a given area Z2H
15-2: Find Area Using Standard Units	<ol style="list-style-type: none"> 1. Find the area of figures made of unit squares FLQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Select figures with a given area XR6 • Select two figures with the same area 7GW
15-3: Find the Area of a Rectangle and a Square	<ol style="list-style-type: none"> 1. Multiply to find the area of a rectangle made of unit squares S7G 2. Find the area of rectangles and squares 8KJ 3. Find the area of rectangles: word problems 5HA <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the missing side length of a rectangle X66
15-4: Find Area Using the Distributive Property	
15-5: Find Area of Composite Shapes	<ol style="list-style-type: none"> 1. Find the areas of complex figures by dividing them into rectangles DVB 2. Find the area of complex figures SGP <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Find the area of rectangles with missing unit squares KTN • Find the area between two rectangles KH6
15-6: Problem Solving: Guess and Test	<ol style="list-style-type: none"> 1. Create rectangles with a given area V73

Chapter 16

Perimeter

Textbook section	IXL skills
16-1: Understand Perimeter	<ol style="list-style-type: none"> 1. Perimeter of figures on grids TQP 2. Perimeter of rectilinear shapes 65Z
16-2: Find Perimeter	<ol style="list-style-type: none"> 1. Perimeter of rectangles ZJT 2. Perimeter of polygons LLY
16-3: Find Unknown Side Lengths	<ol style="list-style-type: none"> 1. Perimeter of polygons: find the missing side lengths 5X5
16-4: Problem Solving: More Than One Way	<ol style="list-style-type: none"> 1. Perimeter: word problems CLD <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Compare area and perimeter of two figures PMF • Use area and perimeter to determine cost 8H8
16-5: Same Perimeter, Different Areas	<ol style="list-style-type: none"> 1. Relationship between area and perimeter: find the area KNR
16-6: Same Area, Different Perimeters	<ol style="list-style-type: none"> 1. Relationship between area and perimeter: find the perimeter ZWF