



IXL Skill Alignment

6th grade alignment for Sadlier Math



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Chapter 1

Addition and Subtraction Operations and Expressions

Textbook section	IXL skills
1-1: Estimate Decimal Sums and Differences	1. Estimate sums and differences of decimals SJ6
1-2: Add Decimals	1. Add decimals MGH
1-3: Subtract Decimals	1. Subtract decimals ESG 2. Add and subtract decimals: word problems 97T <i>Also consider</i> <ul style="list-style-type: none">• Maps with decimal distances J7D
1-4: Write Addition and Subtraction Expressions	1. Write addition and subtraction expressions 6YN 2. Write addition and subtraction expressions: word problems F8J
1-5: Evaluate Addition and Subtraction Expressions	1. Evaluate addition and subtraction expressions CFM
1-6: Problem Solving: Use the Four-Step Process	1. Multi-step addition and subtraction word problems ZCW 2. Add and subtract money: multi-step word problems BY7

Chapter 2

Multiplication Operations and Expressions

Textbook section	IXL skills
2-1: Multiply Decimals by 0.1, 0.01, and 0.001	1. Multiply by 0.1, 0.01, or 0.001 SF7
2-2: Estimate Decimal Products	1. Estimate products of decimals E7N
2-3: Multiply with Decimals	1. Multiply two decimals: where does the decimal point go? 5K4 2. Multiply decimals 2WT <i>Also consider</i> <ul style="list-style-type: none"> Inequalities with decimal multiplication 5XH
2-4: Write Multiplication Expressions	1. Write addition and multiplication expressions SN6 2. Write addition and multiplication expressions: word problems 2DM
2-5: Evaluate Multiplication Expressions	<ul style="list-style-type: none"> <i>Coming soon:</i> Evaluate multiplication expressions
2-6: Problem Solving: Write and Simplify Expressions	1. Write numerical expressions for word problems XB2

Chapter 3

Division Operations and Expressions

Textbook section	IXL skills
3-1: Divide Whole Numbers	<ol style="list-style-type: none"> 1. Estimate quotients HYS 2. Divide whole numbers 5P8
3-2: Divide Decimals by 10, 100, and 1000	<ol style="list-style-type: none"> 1. Divide by powers of ten 6JY 2. Divide by a power of ten with decimals: find the missing number F45
3-3: Divide Decimals by Whole Numbers	<ol style="list-style-type: none"> 1. Estimate decimal quotients KFF 2. Divide decimals by whole numbers H8Z 3. Divide money amounts: word problems SEF
3-4: Divide Decimals by 0.1, 0.01, and 0.001	<ol style="list-style-type: none"> 1. Divide by 0.1, 0.01, or 0.001 LPH
3-5: Estimate Decimal Quotients	<ul style="list-style-type: none"> • <i>Coming soon:</i> Estimate quotients of decimals
3-6: Decimal Divisors	<ol style="list-style-type: none"> 1. Divide money amounts EDP
3-7: Zeros in Division	<ol style="list-style-type: none"> 1. Divide decimals EN5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide decimals by whole numbers: word problems TWZ
3-8: Write Division Expressions	<ol style="list-style-type: none"> 1. Write multiplication and division expressions 6GL 2. Write variable expressions: word problems 6LQ
3-9: Evaluate Division Expressions	<ul style="list-style-type: none"> • <i>Coming soon:</i> Evaluate division expressions
3-10: Problem Solving: Use Logical Reasoning	<ol style="list-style-type: none"> 1. Multiply and divide decimals: word problems GZN 2. Multi-step word problems involving remainders DML

Chapter 4

Numeric and Algebraic Expressions

Textbook section	IXL skills
4-1: Exponents	<ol style="list-style-type: none"> 1. Write multiplication expressions using exponents TY5 2. Evaluate exponents XDA 3. Find the missing exponent or base HC5
4-2: Order of Operations	<ol style="list-style-type: none"> 1. Evaluate numerical expressions one step at a time XCQ 2. Evaluate numerical expressions involving whole numbers MLU 3. Evaluate numerical expressions with parentheses in different places NCR <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify mistakes involving the order of operations V46 • Evaluate numerical expressions involving decimals YEE
4-3: Parts of Expressions	<ol style="list-style-type: none"> 1. Identify terms and coefficients 9KE
4-4: Translate Expressions	<ol style="list-style-type: none"> 1. Write expressions VQ6
4-5: Translate Expressions Involving Exponents	<ol style="list-style-type: none"> 1. Write expressions with exponents EU7
4-6: Use the Distributive Property and Evaluate Algebraic Expressions	<ol style="list-style-type: none"> 1. Evaluate multi-variable expressions HC9 2. Add and subtract like terms CN9 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply using the distributive property 2HH
4-7: Apply Properties to Write Equivalent Expressions	<ol style="list-style-type: none"> 1. Write equivalent expressions using properties R8H
4-8: Identify Equivalent Expressions	<ol style="list-style-type: none"> 1. Identify equivalent expressions I KFG 2. Identify equivalent expressions II HTG

4-9: Use Formulas

1. Evaluate variable expressions: word problems 7XA

4-10: Problem Solving: Represent the Situation

1. Identify equivalent expressions: word problems QNC

Chapter 5

One-Variable Equations and Inequalities

Textbook section	IXL skills
5-1: Solutions of Equations	<ol style="list-style-type: none"> 1. Which x satisfies an equation? 9XJ 2. Does x satisfy an equation? VMB
5-2: Addition and Subtraction Equations	<ol style="list-style-type: none"> 1. Solve one-step addition and subtraction equations AZF 2. Write addition and subtraction equations in words 6UU 3. Solve one-step addition and subtraction equations: word problems 35Q
5-3: Multiplication and Division Equations	<ol style="list-style-type: none"> 1. Solve one-step multiplication and division equations NKK 2. Write multiplication and division equations in words PJ6 3. Solve one-step multiplication and division equations: word problems GMV
5-4: Write and Solve Equations	<ol style="list-style-type: none"> 1. Solve one-step equations: word problems BXY <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Which word problem matches the one-step equation? WYQ • Model and solve equations using algebra tiles G6Z • Write and solve equations that represent diagrams FSQ
5-5: Inequalities	<ol style="list-style-type: none"> 1. Inequalities involving addition, subtraction, multiplication, and division 8LF
5-6: Solutions of Inequalities	<ol style="list-style-type: none"> 1. Solutions to inequalities P9N
5-7: Write Inequalities	<ol style="list-style-type: none"> 1. Write and graph inequalities: word problems AGB <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write inequalities from number lines N99

- Graph inequalities on number lines CXX

5-8: Solve Inequalities

1. Solve one-step inequalities KRH
2. One-step inequalities: word problems N2A

5-9: Problem Solving: Write and Solve an Equation

1. Represent multi-step problems using equations U8Z
 2. Multi-step word problems LHA
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Chapter 6

Factors and Multiples

Textbook section	IXL skills
6-1: Prime Factorization	<ol style="list-style-type: none">1. Rewrite expressions using exponents 48L2. Prime factorization 9CP3. Prime factorization with exponents WLU <p><i>Also consider</i></p> <ul style="list-style-type: none">• Prime or composite DFC
6-2: Greatest Common Factor	<ol style="list-style-type: none">1. Greatest common factor AMB2. Greatest common factor of three numbers RV6
6-3: The Distributive Property and Common Factors	<ul style="list-style-type: none">• <i>Coming soon:</i> Identify equivalent numerical expressions
6-4: Least Common Multiple	<ol style="list-style-type: none">1. Least common multiple NGA2. Least common multiple of three numbers JPB
6-5: Problem Solving: Make a List	<ol style="list-style-type: none">1. GCF and LCM: word problems ZB8

Chapter 7

Fractions and Decimals

Textbook section	IXL skills
7-1: Fractions in Simplest Form	<ol style="list-style-type: none"> 1. Write fractions in lowest terms 5EW 2. Fractions of a group: word problems ZDN
7-2: Relate Fractions and Decimals	<ol style="list-style-type: none"> 1. Word names for decimal numbers NF9 2. Convert between fractions and decimals: denominators of 10, 100, 1,000, and 10,000 RCA
7-3: Rename Fractions as Decimals	<ol style="list-style-type: none"> 1. Convert fractions or mixed numbers to decimals PVN
7-4: Rename Decimals as Fractions	<ol style="list-style-type: none"> 1. Convert decimals to fractions HTJ
7-5: Addition and Subtraction Expressions with Fractions	<ol style="list-style-type: none"> 1. Evaluate addition and subtraction expressions with fractions JAC 2. Add 3 fractions or mixed numbers using properties of addition VFT
7-6: Addition and Subtraction Equations with Fractions	<ol style="list-style-type: none"> 1. Solve one-step addition and subtraction equations with fractions WUC
7-7: Problem Solving: Write and Solve an Equation	<ol style="list-style-type: none"> 1. Solve one-step equations: word problems REW 2. Add and subtract fractions and mixed numbers: word problems CP2

Chapter 8

Multiply and Divide Fractions

Textbook section	IXL skills
8-1: Multiply Fractions	<ol style="list-style-type: none"> 1. Multiply two fractions E5C 2. Multiply mixed numbers C7B 3. Multiply fractions and mixed numbers: word problems 2QC <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply two fractions using models B7P
8-2: Properties of Multiplication	<ol style="list-style-type: none"> 1. Properties of multiplication HC8 2. Solve for a variable using properties of multiplication 6ZG
8-3: Meaning of Division by a Fraction	<ol style="list-style-type: none"> 1. Divide whole numbers by unit fractions using models DXW
8-4: Model Dividing Fractions by Fractions	<ul style="list-style-type: none"> • <i>Coming soon:</i> Divide two fractions using models
8-5: Divide Fractions by Fractions	<ol style="list-style-type: none"> 1. Reciprocals R9V 2. Divide fractions ABT 3. Divide fractions: word problems KDQ
8-6: Estimate Quotients of Fractions and Mixed Numbers	<ol style="list-style-type: none"> 1. Estimate quotients with mixed numbers 82P
8-7: Divide with Whole and Mixed Numbers	<ol style="list-style-type: none"> 1. Divide fractions and mixed numbers K6K 2. Divide fractions and mixed numbers: word problems MTS
8-8: Order of Operations with Fractions	<ol style="list-style-type: none"> 1. Evaluate numerical expressions involving fractions WNE
8-9: Fractions with Money	<ol style="list-style-type: none"> 1. Multiply and divide decimals and fractions ZS8
8-10: Multiplication and Division Expressions with Fractions	<ol style="list-style-type: none"> 1. Evaluate multiplication and division expressions with fractions TEX



8-11: Multiplication and Division Equations with Fractions

1. Solve one-step multiplication and division equations with fractions LP2

8-12: Problem Solving: Use a Model

1. Multi-step word problems with rational numbers D2G
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Chapter 9

Rational Numbers and the Coordinate Plane

Textbook section	IXL skills
9-1: Integers on the Number Line	<ol style="list-style-type: none"> Understanding opposite integers X8L Understanding integers 8EP <p><i>Also consider</i></p> <ul style="list-style-type: none"> Integers on number lines K6J
9-2: Integers in the Real World	<ol style="list-style-type: none"> Graph integers on horizontal and vertical number lines 36C Quantities that combine to zero: word problems FRF
9-3: Compare and Order Integers	<ol style="list-style-type: none"> Compare integers 4G6 Put integers in order CMQ Integer inequalities with absolute values 4A8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Understanding absolute value TLR Absolute value 2YZ
9-4: Absolute Value as Magnitude	<ol style="list-style-type: none"> Absolute value and integers: word problems 9CW
9-5: Rational Numbers	<ol style="list-style-type: none"> Rational numbers on number lines DJE Convert rational numbers to decimals QVU Opposites of rational numbers E8R <p><i>Also consider</i></p> <ul style="list-style-type: none"> Classify rational numbers using a diagram 64K
9-6: Compare and Order Rational Numbers	<ol style="list-style-type: none"> Compare and order rational numbers using number lines FMS Compare and order rational numbers JNH Compare and order rational numbers: word problems ETK

9-7: Plot Points in the Coordinate Plane

1. Quadrants 67V
2. Graph points on a coordinate plane VHQ

Also consider

- Describe the coordinate plane KU7
- Follow directions on a coordinate plane XDQ

9-8: Reflections of Points

1. Reflections of points KDG

9-9: Distance on the Coordinate Plane

1. Distance between two points A7P

9-10: Plot Polygons

1. Graph triangles and quadrilaterals E55

9-11: Problem Solving: Draw a Picture

1. Coordinate planes as maps N96

Chapter 10

Ratios and Proportional Relationships

Textbook section	IXL skills
10-1: Ratios	1. Write a ratio: word problems W98
10-2: Tables of Equivalent Ratios	1. Ratio tables PPF <i>Also consider</i> • Equivalent ratios: word problems RLZ
10-3: Tape Diagrams	1. Use tape diagrams to solve ratio word problems YMD
10-4: Double Number Lines	1. Write an equivalent ratio NEA 2. Equivalent rates 9AF
10-5: Compare Ratios	1. Compare ratios: word problems 2HT
10-6: Rates and Unit Rates	1. Unit rates JSZ
10-7: Compare Prices	1. Unit prices UKD
10-8: Equations for Proportional Relationships	1. Solve the proportion 7H5
10-9: Graphs of Proportional Relationships	1. Ratios and rates: complete a table and make a graph 6Z2 2. Interpret graphs of proportional relationships ZWG <i>Also consider</i> • Identify proportional relationships from tables YRR
10-10: Problem Solving: Make a Table	1. Multi-step word problems: multiplicative comparison HBE

Chapter 11

Percent

Textbook section	IXL skills
11-1: Percent	1. Understand percents XNN
11-2: Relate Percents to Fractions	1. Convert fractions to percents using grid models ZDZ 2. Convert between percents and fractions FGY
11-3: Relate Percents to Decimals	1. Convert between percents and decimals RBQ
11-4: Relate Decimals, Fractions, and Percents	1. Convert between percents, fractions, and decimals 98Y 2. Compare percents to fractions and decimals 5WY 3. Compare percents and fractions: word problems 9C8 <i>Also consider</i> <ul style="list-style-type: none"> Convert between percents, fractions, and decimals: word problems 7CZ
11-5: Percents Greater Than 100%	1. Convert between percents, fractions, and decimals: percents greater than 100% B2U
11-6: Percents Less Than 1%	<ul style="list-style-type: none"> <i>Coming soon:</i> Convert between percents, fractions, and decimals: percents less than 1%
11-7: Find the Part	1. Percents of numbers CSB 2. Percents of numbers: word problems BBY
11-8: Find the Percent	1. Find what percent one number is of another PE7 2. Find what percent one number is of another: word problems 49B
11-9: Find the Whole	1. Find the total given a part and a percent D6L
11-10: Problem Solving: Act it Out	1. Solve percent problems using strip models MEA 2. Solve percent problems using grid models YX6

Chapter 12

Measurement

Textbook section	IXL skills
12-1: Convert Customary Units	<ol style="list-style-type: none">1. Convert customary units WQY2. Compare customary units SBT
12-2: Convert Metric Units	<ol style="list-style-type: none">1. Convert metric units KRR2. Compare metric units TBT
12-3: Convert Between Customary and Metric Units	<ol style="list-style-type: none">1. Convert between customary and metric systems 5CF
12-4: Problem Solving: Use Logical Reasoning	<ol style="list-style-type: none">1. Multi-step problems with customary or metric unit conversions KB7

Chapter 13

Two-Variable Relationships

Textbook section	IXL skills
13-1: Related Quantities	1. Identify independent and dependent variables: word problems 9UJ
13-2: Relationships in Words and Tables	1. Write a two-variable equation from a table ZTL <i>Also consider</i> <ul style="list-style-type: none">Complete a table for a two-variable relationship TZB
13-3: Relationships in Equations and Graphs	1. Graph a two-variable equation TJA 2. Interpret a graph: word problems I SDK
13-4: Multiple Representations of Relationships	1. Write a two-variable equation 2RE 2. Complete a table and make a graph: word problems EBM
13-5: Problem Solving: Guess and Test	1. Interpret a graph: word problems II 32R 2. Find a value using two-variable equations: word problems SLK

Chapter 14

Geometry: Area

Textbook section	IXL skills
14-1: Areas of Parallelograms	<ol style="list-style-type: none">1. Understanding area of a parallelogram QMU2. Area of parallelograms Y8K
14-2: Areas of Triangles	<ol style="list-style-type: none">1. Understanding area of a triangle PLL2. Area of triangles C8S
14-3: Areas of Trapezoids	<ol style="list-style-type: none">1. Understanding area of a trapezoid UNQ2. Area of trapezoids PKW3. Area of quadrilaterals and triangles: word problems ULK
14-4: Circumference or Area of Circles	<ol style="list-style-type: none">1. Circumference of circles N6W2. Area of circles 4S53. Area between two circles WHE <p><i>Also consider</i></p> <ul style="list-style-type: none">• Circles: word problems YTG
14-5: Areas of Regular Polygons	
14-6: Areas of Composite Figures	<ol style="list-style-type: none">1. Area of composite figures I 5PM2. Area of composite figures II F5P
14-7: Problem Solving: Find a Pattern	<ol style="list-style-type: none">1. Shape patterns 9SC

Chapter 15

Geometry: Surface Area and Volume

Textbook section	IXL skills
15-1: Nets of Three-Dimensional Figures	<ol style="list-style-type: none">1. Nets of three-dimensional figures 8KP <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which figure is being described? 9WV
15-2: Use Nets to Find Surface Area of Prisms	<ol style="list-style-type: none">1. Surface area of cubes and rectangular prisms RMG2. Surface area of triangular prisms UGR
15-3: Use Nets to Find Surface Area of Pyramids	<ol style="list-style-type: none">1. Surface area of pyramids 5XW
15-4: Use Cubes to Find Volume	<ul style="list-style-type: none">• <i>Coming soon:</i> Use unit cubes to find volume of rectangular prisms
15-5: Volumes of Rectangular Prisms	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms with fractional side lengths BQK
15-6: Problem Solving: More Than One Way	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms: word problems BBM2. Find the density 53T

Chapter 16

Measures of Center and Variation

Textbook section	IXL skills
16-1: Statistical Questions	1. Identify statistical questions PT7
16-2: Measures of Center	1. Calculate mean, median, and mode NKV
16-3: Measures of Variation: Range and Interquartile Range	1. Calculate range, quartiles, and interquartile range Z85
16-4: Measures of Variation: Mean Absolute Deviation	1. Calculate mean absolute deviation JUV
16-5: Analyze Data	1. Describe distributions in line plots RZL <i>Also consider</i> <ul style="list-style-type: none">Identify an outlier and describe the effect of removing it 8Q5
16-6: Problem Solving: Work Backwards	1. Mean, median, mode, and range: find the missing number 77K

Chapter 17

Data Displays

Textbook section	IXL skills
17-1: Dot Plots	<ol style="list-style-type: none">1. Create line plots 5HD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret line plots M5Y
17-2: Box Plots	<ol style="list-style-type: none">1. Box plots E9F
17-3: Histograms	<ol style="list-style-type: none">1. Create frequency charts UUN2. Create histograms 7NG <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret histograms CBF
17-4: Data Distributions	<ul style="list-style-type: none">• <i>Coming soon:</i> Choose appropriate measures to describe distributions
17-5: Interpret Circle Graphs	<ol style="list-style-type: none">1. Interpret circle graphs 8KT
17-6: Problem Solving: Use a Model	<ol style="list-style-type: none">1. Interpret charts and graphs to find mean, median, mode, and range 2WK