



IXL Skill Alignment

Course 1 alignment for EdGems Math



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Unit 1

Ratios and Rates

Textbook section	IXL skills
1.1: Ratios	<ol style="list-style-type: none">1. Write a ratio 77D2. Write a ratio: word problems W983. Use tape diagrams to solve ratio word problems YMD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Write fractions in lowest terms 5EW
1.2: Ratio Tables and Graphs	<ol style="list-style-type: none">1. Write an equivalent ratio NEA2. Ratio tables PPF3. Ratios and rates: complete a table and make a graph 6Z2 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify equivalent ratios 2LM• Equivalent ratios: word problems RLZ
1.3: Rates and Unit Rates	<ol style="list-style-type: none">1. Unit rates JSZ2. Equivalent rates 9AF
1.4: Comparing Rates	<ol style="list-style-type: none">1. Compare rates: word problems NAF2. Compare ratios: word problems 2HT
1.5: Measurement Conversions	<ol style="list-style-type: none">1. Convert metric and customary units using tables 6U82. Convert metric and customary units using conversion factors AGN3. Convert between customary and metric systems 5CF <p><i>Also consider</i></p> <ul style="list-style-type: none">• Convert customary and metric units using proportions 2HG

1.6: Circumference and Pi

1. Parts of a circle 6JD
 2. Circumference of circles MDM
 3. Central angles of circles 4N9
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Unit 2

Multi-Digit Operations

Textbook section	IXL skills
2.1: Adding and Subtracting Decimals	<ol style="list-style-type: none"> 1. Add and subtract decimals 4F6 2. Add and subtract decimals: word problems 97T 3. Add and subtract money: multi-step word problems BY7 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Maps with decimal distances J7D
2.2: Multiplying Decimals	<ol style="list-style-type: none"> 1. Multiply a decimal by a whole number CKB 2. Multiply decimals 2WT 3. Multiply money amounts: multi-step word problems 99Z <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply decimals using grids NY9 • Multiply two decimals: where does the decimal point go? 5K4
2.3: Dividing by 1-Digit Numbers	<ol style="list-style-type: none"> 1. Divide multi-digit numbers by 1-digit numbers TVS 2. One-step word problems involving remainders YGJ
2.4: Dividing by Multi-Digit Numbers	<ol style="list-style-type: none"> 1. Divide by 2-digit numbers T5G 2. Divide by 2-digit numbers: word problems CNW
2.5: Dividing Decimals	<ol style="list-style-type: none"> 1. Divide decimals by whole numbers NLL 2. Divide decimals Y7C 3. Multiply and divide decimals: word problems GZN
2.6: Common Factors and Multiples	<ol style="list-style-type: none"> 1. Greatest common factor AMB 2. Least common multiple NGA 3. GCF and LCM: word problems ZB8

Unit 3

Percents

Textbook section	IXL skills
3.1: Introducing Percents	<ol style="list-style-type: none">1. Understanding percents: strip models 5JV2. Convert fractions to percents using grid models ZDZ3. Convert percents to fractions and decimals T62
3.2: Percents, Decimals, and Fractions	<ol style="list-style-type: none">1. Convert between percents, fractions, and decimals ZAV2. Compare percents to fractions and decimals 5WY <p><i>Also consider</i></p> <ul style="list-style-type: none">• Represent percents with grid models, decimals, and fractions YZD
3.3: Percent of a Number	<ol style="list-style-type: none">1. Percents of numbers and money amounts 8N42. Percents of numbers: word problems BBY
3.4: Percent Applications	<ol style="list-style-type: none">1. Percents: calculate tax, tip, and more 8YA2. Sale prices 5GH <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which is the better coupon? WLZ

Unit 4

Fraction Operations

Textbook section	IXL skills
4.1: Multiplying Fractions	<ol style="list-style-type: none">1. Multiply two fractions using models 54X2. Multiply two fractions E5C3. Multiply fractions: word problems L73 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Scaling whole numbers by fractions: justify your answer 9YZ
4.2: Dividing Fractions with Models	<ul style="list-style-type: none">• <i>Coming soon:</i> Divide two fractions using models
4.3: Dividing Fractions	<ol style="list-style-type: none">1. Reciprocals R9V2. Divide fractions ABT3. Divide fractions: word problems KDQ
4.4: Multiplying and Dividing Mixed Numbers	<ol style="list-style-type: none">1. Multiply mixed numbers C7B2. Divide fractions and mixed numbers K6K3. Multiply and divide fractions and mixed numbers: word problems HGF

Unit 5

Expressions

Textbook section	IXL skills
5.1: Powers and Exponents	<ol style="list-style-type: none">1. Understanding exponents CHN2. Evaluate exponents XDA3. Exponents with fractional bases GEQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Find the missing exponent or base HC5• Exponents with decimal bases D5D
5.2: Order of Operations	<ol style="list-style-type: none">1. Evaluate numerical expressions involving whole numbers MLU2. Evaluate numerical expressions involving decimals YEE3. Evaluate numerical expressions involving fractions WNE <p><i>Also consider</i></p> <ul style="list-style-type: none">• Evaluate numerical expressions one step at a time XCQ• Evaluate numerical expressions with parentheses in different places NCR• Identify mistakes involving the order of operations V46
5.3: Variables and Expressions	<ol style="list-style-type: none">1. Write variable expressions TPE2. Write variable expressions: word problems 6LQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify terms and coefficients 9KE
5.4: Evaluating Expressions	<ol style="list-style-type: none">1. Evaluate variable expressions with whole numbers Q8Z2. Evaluate multi-variable expressions HC93. Evaluate variable expressions: word problems 7XA

Also consider

- Evaluate variable expressions with decimals, fractions, and mixed numbers 49T

5.5: Equivalent Expressions

1. Combine like terms 5D9
2. Identify equivalent expressions I KFG

Also consider

- Identify equivalent expressions using strip models W5U

5.6: The Distributive Property

1. Multiply using the distributive property 2HH
 2. Factor using the distributive property PGZ
- *Coming soon:* Identify equivalent numerical expressions
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Unit 6

One-Variable Equations

Textbook section	IXL skills
6.1: Equations and Solutions	<ol style="list-style-type: none"> 1. Does x satisfy an equation? L8T 2. Which x satisfies an equation? LKX 3. Write an equation from words AN8
6.2: Solving Addition and Subtraction Equations	<ol style="list-style-type: none"> 1. Solve one-step addition and subtraction equations MJG 2. Solve one-step addition and subtraction equations: word problems 35Q
6.3: Solving Multiplication and Division Equations	<ol style="list-style-type: none"> 1. Solve one-step multiplication and division equations TRA 2. Solve one-step multiplication and division equations: word problems GMV
6.4: Solving Percent Equations	<ol style="list-style-type: none"> 1. Solve percent equations 6EH 2. Solve percent problems using strip models MEA <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Solve percent problems using grid models YX6

Unit 7

Rational Numbers and the Coordinate Plane

Textbook section

IXL skills

7.1: Understanding Integers

1. Understanding integers 8EP
2. Absolute value and opposite integers S93
3. Compare and order integers 7ZF

Also consider

- Integer inequalities with absolute values 4A8
- Understanding opposite integers X8L
- Understanding absolute value TLR

7.2: Comparing Rational Numbers

1. Absolute values and opposites of rational numbers S7K
2. Compare rational numbers KS2
3. Put rational numbers in order 5AX

Also consider

- Classify rational numbers using a diagram 64K
- Compare and order rational numbers using number lines FMS

7.3: Inequalities

1. Solutions to inequalities P9N
2. Graph inequalities on number lines CXX
3. Write and graph inequalities: word problems AGB

Also consider

- Write inequalities from number lines N99

7.4: The Coordinate Plane

1. Objects on a coordinate plane GFN
2. Quadrants 67V
3. Reflect a point over an axis 32S

Also consider

- Distance between two points A7P
- Graph points on a coordinate plane VHQ
- Describe the coordinate plane KU7

- Coordinate planes as maps N96
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7.5: Quadrilaterals and the Coordinate Plane

1. Graph quadrilaterals on the coordinate plane ASR
2. Area and perimeter of squares and rectangles on the coordinate plane UCD

Also consider

- Classify quadrilaterals BCV
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Unit 8

Two-Variable Equations

Textbook section	IXL skills
8.1: Input-Output Tables	<ol style="list-style-type: none">1. Identify independent and dependent variables: word problems 9UJ2. Complete a table for a two-variable relationship MJF3. Complete a table and make a graph: word problems EBM
8.2: Writing Two-Variable Equations	<ol style="list-style-type: none">1. Write a two-variable equation RBA2. Write an equation from a graph using a table BCM3. Solve word problems by finding two-variable equations UJQ
8.3: Graphing Two-Variable Equations	<ol style="list-style-type: none">1. Complete a table and graph a two-variable equation EY5

Unit 9

Area and Volume

Textbook section	IXL skills
9.1: Area with Fractions	1. Area with fractions AAQ
9.2: Area and Perimeter with Decimals	1. Perimeter with decimals FJM 2. Area with decimals 7NH 3. Area of quadrilaterals and triangles: word problems 9RW
9.3: Area of Composite Figures	1. Area of compound figures with triangles 5V2 <ul style="list-style-type: none"> • <i>Coming soon:</i> Area of compound figures: word problems <i>Also consider</i> <ul style="list-style-type: none"> • Area between two rectangles EY6 • Area between two triangles 8RG
9.4: Nets and Surface Area	1. Nets of three-dimensional figures 8KP 2. Surface area of prisms and pyramids PGA
9.5: Volume of Rectangular Prisms	1. Volume of cubes and rectangular prisms T2H 2. Volume of cubes and rectangular prisms: word problems BBM 3. Volume of compound figures WFV

Unit 10

Statistics

Textbook section	IXL skills
10.1: Introduction to Statistics	<ol style="list-style-type: none"> 1. Identify statistical questions PT7 2. Identify biased samples BSE
10.2: Measures of Center	<ol style="list-style-type: none"> 1. Calculate mean, median, mode, and range ZZK 2. Mean, median, mode, and range: find the missing number 77K <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Changes in mean, median, mode, and range 2G9
10.3: Dot Plots	<ol style="list-style-type: none"> 1. Create line plots 5HD 2. Interpret line plots M5Y 3. Find the mean, median, mode, or range from a line plot ZTM <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create and interpret line plots with fractions QZP
10.4: Histograms	<ol style="list-style-type: none"> 1. Create histograms 7NG 2. Interpret histograms CBF <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create frequency charts UUN
10.5: Box-and-Whisker Plots	<ol style="list-style-type: none"> 1. Calculate quartiles and interquartile range MNV 2. Box plots E9F
10.6: Analyzing Statistics	<ol style="list-style-type: none"> 1. Interpret charts and graphs to find mean, median, mode, and range 2WK 2. Identify an outlier and describe the effect of removing it 8Q5 <ul style="list-style-type: none"> • <i>Coming soon:</i> Choose appropriate measures to describe distributions

10.7: Mean Absolute Deviation

1. Calculate mean absolute deviation JUV
