



IXL Skill Alignment

8th grade alignment for Math Makes Sense



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Unit 1

Square Roots and the Pythagorean Theorem

Textbook section	IXL skills
1.1: Square Numbers and Area Models	1. Area of squares and rectangles SR2
1.2: Squares and Square Roots	1. Square roots of perfect squares ALF 2. Relationship between squares and square roots ZHU <i>Also consider</i> • Factors NW5
1.3: Measuring Line Segments	
1.4: Estimating Square Roots	1. Estimate square roots KVR
1.5: The Pythagorean Theorem	1. Pythagorean theorem: find the length of the hypotenuse 7XW 2. Pythagorean theorem: find the missing leg length UAU 3. Pythagorean theorem: find the missing leg or hypotenuse length U8G
1.6: Exploring the Pythagorean Theorem	1. Converse of the Pythagorean theorem: is it a right triangle? KNS
1.7: Applying the Pythagorean Theorem	1. Pythagorean theorem: find the perimeter X9Y 2. Pythagorean theorem: word problems EPW

Unit 2

Integers

Textbook section	IXL skills
2.1: Using Models to Multiply Integers	<ol style="list-style-type: none">1. Multiply integers C592. Understand multiplying by a negative integer using a number line MHZ
2.2: Developing Rules to Multiply Integers	<ol style="list-style-type: none">1. Integer multiplication rules SLE <p><i>Also consider</i></p> <ul style="list-style-type: none">• Properties of addition and multiplication 5W2
2.3: Using Models to Divide Integers	<ol style="list-style-type: none">1. Divide integers V2T <p><i>Also consider</i></p> <ul style="list-style-type: none">• Multiply and divide integers QJR
2.4: Developing Rules to Divide Integers	<ol style="list-style-type: none">1. Integer division rules M2N <p><i>Also consider</i></p> <ul style="list-style-type: none">• Integer multiplication and division rules TDL• Complete multiplication and division sentences with integers 5GB
2.5: Order of Operations with Integers	<ol style="list-style-type: none">1. Evaluate numerical expressions involving integers A2W <p><i>Also consider</i></p> <ul style="list-style-type: none">• Add and subtract three or more integers UCZ• Apply addition, subtraction, multiplication and division rules NCG• Add, subtract, multiply and divide integers WHT

Unit 3

Operations with Fractions

Textbook section	IXL skills
3.1: Using Models to Multiply Fractions and Whole Numbers	<ol style="list-style-type: none"> Multiply fractions by whole numbers using number lines Q9L Multiplying fractions by whole numbers: choose the model KZT <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiply fractions and whole numbers HNR
3.2: Using Models to Multiply Fractions	<ol style="list-style-type: none"> Multiply two fractions using models GWT
3.3: Multiplying Fractions	<ol style="list-style-type: none"> Multiply fractions FQL Multiply fractions: word problems LEP <p><i>Also consider</i></p> <ul style="list-style-type: none"> Greatest common factor YX6 Write fractions in lowest terms 2V2
3.4: Multiplying Mixed Numbers	<ol style="list-style-type: none"> Multiply mixed numbers YBE Multiply mixed numbers: word problems WVQ
3.5: Dividing Whole Numbers and Fractions	<ol style="list-style-type: none"> Divide whole numbers by unit fractions using models HFY Divide whole numbers and unit fractions BGF
3.6: Dividing Fractions	<ol style="list-style-type: none"> Divide fractions SWH Divide fractions: word problems 6NW <p><i>Also consider</i></p> <ul style="list-style-type: none"> Reciprocals and multiplicative inverses 8W8 Least common denominator CSD
3.7: Dividing Mixed Numbers	<ol style="list-style-type: none"> Divide mixed numbers GKU Divide mixed numbers: word problems WT5

3.8: Solving Problems with Fractions

1. Add, subtract, multiply and divide fractions and mixed numbers: word problems LDJ

Also consider

- Add and subtract fractions with unlike denominators: word problems HTJ
- Add and subtract mixed numbers: word problems F52

3.9: Order of Operations with Fractions

1. Evaluate numerical expressions involving fractions DWA

Unit 4

Measuring Prisms and Cylinders

Textbook section	IXL skills
4.1: Exploring Nets	1. Parts of three-dimensional figures EUL
4.2: Creating Objects from Nets	1. Nets of three-dimensional figures 3B2
4.3: Surface Area of a Right Rectangular Prism	1. Surface area of cubes and rectangular prisms SRX
4.4: Surface Area of a Right Triangular Prism	1. Surface area of triangular prisms 26M
4.5: Volume of a Right Rectangular Prism	1. Volume of cubes and rectangular prisms UEJ
4.6: Volume of a Right Triangular Prism	1. Volume of triangular prisms 2TQ
4.7: Surface Area of a Right Cylinder	1. Surface area of cylinders 85S <i>Also consider</i> <ul style="list-style-type: none">• Surface area of prisms and cylinders FFD
4.8: Volume of a Right Cylinder	1. Volume of prisms and cylinders E7K

Unit 5

Percent, Ratio, and Rate

Textbook section	IXL skills
5.1: Relating Fractions, Decimals, and Percents	<ol style="list-style-type: none"> Convert between percents, fractions and decimals UC7 Compare percents to fractions and decimals JSA <p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare percents of numbers ABR
5.2: Calculating Percents	<ol style="list-style-type: none"> Percents of numbers and money amounts WHE Percents of numbers: word problems TQY <p><i>Also consider</i></p> <ul style="list-style-type: none"> Estimate percents of numbers SKR
5.3: Solving Percent Problems	<ol style="list-style-type: none"> Solve percent equations XPA Percent of change KBR Percent of change: word problems DCH <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find what percent one number is of another BVS Find what percent one number is of another: word problems UZB
5.4: Sales Tax and Discounts	<ol style="list-style-type: none"> Percent of a number: tax, discount and more XWE Find the percent: tax, discount and more MNG <p><i>Also consider</i></p> <ul style="list-style-type: none"> Sale prices: find the original price E7D
5.5: Exploring Ratios	<ol style="list-style-type: none"> Understanding ratios ANP
5.6: Equivalent Ratios	<ol style="list-style-type: none"> Identify equivalent ratios P2R Equivalent ratios: word problems 9DU Write an equivalent ratio PV9

Also consider

- Ratio tables MWJ

5.7: Comparing Ratios

1. Compare ratios: word problems P8N

5.8: Solving Ratio Problems

1. Solve proportions HXN

Also consider

- Do the ratios form a proportion? 8XF
- Do the ratios form a proportion: word problems BPS
- Scale drawings: word problems NV2
- Use tape diagrams to solve ratio word problems AQR

5.9: Exploring Rates

1. Unit rates RSQ
2. Ratios and rates: complete a table and make a graph DKH

5.1: Comparing Rates

1. Unit prices 8UB
2. Compare rates: word problems 8LT

Also consider

- Ratios and rates: word problems PNL
 - Equivalent rates N7N
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Unit 6

Linear Equations and Graphing

Textbook section	IXL skills
6.1: Solving Equations Using Models	<ol style="list-style-type: none"> 1. Model and solve equations using algebra tiles X5X 2. Write and solve equations that represent diagrams FL5
6.2: Solving Equations Using Algebra	<ol style="list-style-type: none"> 1. Which x satisfies an equation? YQ7 2. Solve equations: word problems SDC <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Properties of equality X6N
6.3: Solving Equations Involving Fractions	<ol style="list-style-type: none"> 1. Solve one-step equations XHW 2. Solve two-step equations BCY <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write an equation from words USC
6.4: The Distributive Property	<ol style="list-style-type: none"> 1. Multiply using the distributive property SGB
6.5: Solving Equations Involving the Distributive Property	<ol style="list-style-type: none"> 1. Solve multi-step equations WQK
6.6: Creating a Table of Values	<ol style="list-style-type: none"> 1. Complete a table for a linear function VCC <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write a linear function from a table EFN
6.7: Graphing Linear Relations	<ol style="list-style-type: none"> 1. Complete a table and graph a linear function 8BV 2. Interpret the graph of a linear function: word problems XT5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Graph a line from an equation LDA • Write linear functions: word problems NSJ

Unit 7

Data Analysis and Probability

Textbook section	IXL skills
7.1: Choosing an Appropriate Graph	<ol style="list-style-type: none">1. Interpret bar graphs H972. Interpret line graphs K5E3. Interpret circle graphs KXQ4. Choose the best type of graph RPX <p><i>Also consider</i></p> <ul style="list-style-type: none">• Create bar graphs CBP• Create line graphs 6UZ
7.2: Misrepresenting Data	
7.3: Probability of Independent Events	<ol style="list-style-type: none">1. Probability of independent events 3C2 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify independent and dependent events NY9
7.4: Solving Problems Involving Independent Events	<ol style="list-style-type: none">1. Compound events: find the number of outcomes 8MH

Unit 8

Geometry

Textbook section	IXL skills
8.1: Sketching Views of Objects	1. Front, side and top view 2MC
8.2: Drawing Views of Rotated Objects	
8.3: Building Objects from Their Views	
8.4: Identifying Transformations	<ol style="list-style-type: none">1. Identify reflections, rotations and translations E6T2. Describe a sequence of transformations R5R <p><i>Also consider</i></p> <ul style="list-style-type: none">• Translations: graph the image VZV• Reflections: graph the image SHM• Rotations: graph the image CS6
8.5: Constructing Tessellations	
8.6: Identifying Transformations in Tessellations	