



IXL Skill Alignment

Course 2 alignment for Big Ideas Math 2019 Virginia



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Chapter 1

Rational Numbers

Textbook section	IXL skills
Section 1.1: Rational Numbers and Absolute Value	<ol style="list-style-type: none"> 1. Identify rational numbers DE8 2. Compare rational numbers JVR 3. Put rational numbers in order 28Y 4. Absolute value of rational numbers JCX
Section 1.2: Adding Rational Numbers	<ol style="list-style-type: none"> 1. Add positive and negative decimals Y6V 2. Add positive and negative fractions DMY
Section 1.3: Subtracting Rational Numbers	<ol style="list-style-type: none"> 1. Subtract positive and negative decimals FGV 2. Subtract positive and negative fractions QLV <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add and subtract positive and negative fractions SD2 • Add and subtract positive and negative decimals WCZ • Add and subtract rational numbers GKU • Apply addition and subtraction rules Y8T
Section 1.4: Multiplying and Dividing Rational Numbers	<ol style="list-style-type: none"> 1. Multiply and divide positive and negative decimals K7V 2. Multiply and divide positive and negative fractions 2B5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply and divide rational numbers BXW • Apply multiplication and division rules V5V

Chapter 2

Expressions and Equations

Textbook section	IXL skills
Section 2.1: Algebraic Expressions	<p>Evaluate expressions</p> <ol style="list-style-type: none"> Evaluate linear expressions UG6 <p>Simplify expressions</p> <ol style="list-style-type: none"> Identify equivalent linear expressions I DRB Add and subtract like terms: with exponents EQA Write equivalent expressions using properties 6XR
Section 2.2: Adding and Subtracting Linear Expressions	<ol style="list-style-type: none"> Add and subtract linear expressions 6BT
Section 2.3: Solving Equations Using Addition or Subtraction	<ol style="list-style-type: none"> Solve one-step equations WKM
Section 2.4: Solving Equations Using Multiplication or Division	<ol style="list-style-type: none"> Solve one-step equations WKM Solve equations using properties XSC
Section 2.5: Solving Two-Step Equations	<ol style="list-style-type: none"> Solve two-step equations QEB Solve equations involving like terms VSW Solve equations: word problems D2Y <p><i>Also consider</i></p> <ul style="list-style-type: none"> Model and solve equations using algebra tiles EGK Solve equations: complete the solution 66R

Chapter 3

Inequalities

Textbook section	IXL skills
Section 3.1: Writing and Graphing Inequalities	<ol style="list-style-type: none">1. Solutions to inequalities 8BA2. Graph inequalities on number lines VLU3. Write inequalities from number lines JNL
Section 3.2: Solving Inequalities Using Addition or Subtraction	<ol style="list-style-type: none">1. Solve one-step addition and subtraction inequalities XPQ
Section 3.3: Solving Inequalities Using Multiplication or Division	<ol style="list-style-type: none">1. Solve one-step multiplication and division inequalities 2YB2. Solve one-step inequalities QWH3. Graph solutions to one-step inequalities TFK <p><i>Also consider</i></p> <ul style="list-style-type: none">• One-step inequalities: word problems 6HD
Section 3.4: Solving Two-Step Inequalities	<ol style="list-style-type: none">1. Solve two-step inequalities XGQ2. Graph solutions to two-step inequalities 6TT

Chapter 4

Ratios and Proportions

Textbook section	IXL skills
Section 4.1: Ratios and Rates	Ratios <ol style="list-style-type: none">1. Identify equivalent ratios ZFM2. Write an equivalent ratio LQR3. Equivalent ratios: word problems DJ8 Rates <ol style="list-style-type: none">4. Unit rates 2NB5. Calculate unit rates with fractions 57X
Section 4.2: Proportions	<ol style="list-style-type: none">1. Do the ratios form a proportion? MJQ2. Do the ratios form a proportion: word problems SHV
Section 4.3: Writing Proportions	<ol style="list-style-type: none">1. Solve proportions: word problems WB7
Section 4.4: Solving Proportions	<ol style="list-style-type: none">1. Solve proportions TDA <p><i>Also consider</i></p> <ul style="list-style-type: none">• Percents of numbers and money amounts 93K• Percents of numbers: word problems EXE

Chapter 5

Transformations and Graphing Relationships

Textbook section	IXL skills
Section 5.1: Translations	<ol style="list-style-type: none"> Translations: graph the image ZUF Translations: find the coordinates MHD
Section 5.2: Reflections	<ol style="list-style-type: none"> Reflections over the x- and y-axes: graph the image UPK Reflections over the x- and y-axes: find the coordinates TF8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Reflections: graph the image 5Z3 Reflections: find the coordinates YDM
Section 5.3: Slope	<ol style="list-style-type: none"> Find the slope from a graph YH9 Find the slope from two points VZG <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find a missing coordinate using slope NR2
Section 5.4: Graphing Proportional Relationships	<ol style="list-style-type: none"> Identify proportional relationships by graphing AAN Find the constant of proportionality from a graph ZUT Write equations for proportional relationships from graphs JKH <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify proportional relationships from tables 6V7
Section 5.5: Graphing Additive Relationships	<ol style="list-style-type: none"> Graph an additive relationship from an equation DRG
Section 5.6: Writing Equations of Additive Relationships	<ol style="list-style-type: none"> Write equations for additive relationships AW2

Chapter 6

Two-Dimensional Figures

Textbook section	IXL skills
Section 6.1: Quadrilaterals	<ol style="list-style-type: none">1. Classify quadrilaterals I CDR2. Classify quadrilaterals II 52C3. Find missing angles in quadrilaterals I CXP <p><i>Also consider</i></p> <ul style="list-style-type: none">• Find missing angles in quadrilaterals II JPY
Section 6.2: Similar Figures	<ol style="list-style-type: none">1. Similar and congruent figures DVS2. Side lengths and angle measures of similar figures JA5
Section 6.3: Perimeters and Areas of Similar Figures	<ol style="list-style-type: none">1. Perimeter and area: changes in scale ZC6
Section 6.4: Scale Drawings	<ol style="list-style-type: none">1. Scale drawings: scale factor word problems KCM2. Scale drawings: word problems 84H

Chapter 7

Three-Dimensional Figures

Textbook section	IXL skills
Section 7.1: Surface Areas of Rectangular Prisms	1. Surface area of cubes and prisms RFP
Section 7.2: Surface Areas of Cylinders	1. Surface area of cylinders CYQ
Section 7.3: Volumes of Rectangular Prisms	1. Volume of cubes and rectangular prisms: word problems 8WV
Section 7.4: Volumes of Cylinders	1. Volume of cylinders FHC

Chapter 8

Exponents and Scientific Notation

Textbook section	IXL skills
Section 8.1: Finding Square Roots	1. Square roots of perfect squares WRT
Section 8.2: Exponents	<p>Understand exponents</p> <p>1. Understanding exponents BFA</p> <p>Evaluate exponents</p> <p>2. Evaluate exponents ZDS</p> <p>3. Exponents with negative bases WFW</p> <p>4. Exponents with decimal and fractional bases PFS</p> <p>Evaluate expressions</p> <p>5. Evaluate numerical expressions involving exponents D7P</p>
Section 8.3: Zero and Negative Exponents	<p>1. Powers of ten with negative exponents ULA</p> <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Powers of ten LJQ
Section 8.4: Reading Scientific Notation	1. Compare numbers written in scientific notation G9C
Section 8.5: Writing Scientific Notation	1. Scientific notation 3S7

Chapter 9

Probability and Statistics

Textbook section	IXL skills
Section 9.1: Probability	<ol style="list-style-type: none">1. Probability of simple events ZZB2. Probability of simple events and opposite events F88
Section 9.2: Experimental and Theoretical Probability	<ol style="list-style-type: none">1. Experimental probability 9AA2. Make predictions using theoretical probability 9UW3. Make predictions using experimental probability WP6
Section 9.3: Stem-and-Leaf Plots	<ol style="list-style-type: none">1. Interpret stem-and-leaf plots BCT2. Create stem-and-leaf plots 8AP
Section 9.4: Histograms	<ol style="list-style-type: none">1. Interpret histograms XMF2. Create histograms LGG