



# IXL Skill Alignment

7th grade alignment for Big Ideas Math 2014 Common Core Curriculum



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# Chapter 1

## Integers

Textbook section	IXL skills
<b>1.1:</b> Integers and Absolute Value	<ol style="list-style-type: none"><li>1. Integers on number lines A5Y</li><li>2. Absolute value and opposite integers NSB</li><li>3. Compare and order integers JX8</li></ol>
<b>1.2:</b> Adding Integers	
<b>1.3:</b> Subtracting Integers	<ol style="list-style-type: none"><li>1. Integer addition and subtraction rules 6EV</li><li>2. Add and subtract integers using counters B8X</li><li>3. Add and subtract integers FNS</li><li>4. Complete addition and subtraction equations with integers P6A</li><li>5. Add and subtract integers: word problems 2DD</li></ol>
<b>1.4:</b> Multiplying Integers	
<b>1.5:</b> Dividing Integers	<ol style="list-style-type: none"><li>1. Integer multiplication and division rules 5R8</li><li>2. Multiply and divide integers R8D</li><li>3. Complete multiplication and division equations with integers K94</li></ol>

# Chapter 2

## Rational Numbers

### Textbook section

### IXL skills

#### 2.1: Rational Numbers

1. Compare and order fractions CEY
2. Convert between decimals and fractions or mixed numbers 8XE
3. Identify rational numbers DE8
4. Compare rational numbers JVR
5. Put rational numbers in order 28Y

#### 2.2: Adding Rational Numbers

#### 2.3: Subtracting Rational Numbers

1. Add and subtract decimals BP2
2. Add and subtract decimals: word problems RKZ
3. Add and subtract fractions NGL
4. Add and subtract fractions: word problems ENL
5. Add and subtract mixed numbers 9BE
6. Add and subtract rational numbers GKU
7. Apply addition and subtraction rules Y8T

#### 2.4: Multiplying and Dividing Rational Numbers

1. Multiply decimals TCU
2. Divide decimals 6HB
3. Add, subtract, multiply, and divide decimals: word problems TGN
4. Multiply fractions PDK
5. Multiply mixed numbers JNY
6. Divide fractions X7A
7. Divide mixed numbers UPF
8. Add, subtract, multiply, and divide fractions and mixed numbers: word problems KR7
9. Multiply and divide rational numbers BXW
10. Apply multiplication and division rules V5V

# Chapter 3

## Expressions and Equations

Textbook section	IXL skills
<b>3.1:</b> Algebraic Expressions	<ol style="list-style-type: none"><li>1. Evaluate linear expressions UG6</li><li>2. Multiply using the distributive property NUY</li><li>3. Write equivalent expressions using properties 6XR</li></ol>
<b>3.2:</b> Adding and Subtracting Linear Expressions	<ol style="list-style-type: none"><li>1. Add and subtract linear expressions 6BT</li><li>2. Identify equivalent linear expressions II KAR</li></ol>
<b>3.3:</b> Solving Equations Using Addition or Subtraction	
<b>3.4:</b> Solving Equations Using Multiplication or Division	<ol style="list-style-type: none"><li>1. Solve equations using properties XSC</li><li>2. Solve one-step equations WKM</li></ol>
<b>3.5:</b> Solving Two-Step Equations	<ol style="list-style-type: none"><li>1. Model and solve equations using algebra tiles EGK</li><li>2. Solve two-step equations QEB</li><li>3. Solve equations: word problems D2Y</li><li>4. Solve equations: complete the solution 66R</li></ol>

# Chapter 4

## Inequalities

Textbook section	IXL skills
<b>4.1:</b> Writing and Graphing Inequalities	<ol style="list-style-type: none"><li>1. Solutions to inequalities 8BA</li><li>2. Graph inequalities on number lines VLU</li><li>3. Write inequalities from number lines JNL</li></ol>
<b>4.2:</b> Solving Inequalities Using Addition or Subtraction	
<b>4.3:</b> Solving Inequalities Using Multiplication or Division	<ol style="list-style-type: none"><li>1. Solve one-step inequalities QWH</li><li>2. Graph solutions to one-step inequalities TFK</li></ol>
<b>4.4:</b> Solving Two-Step Inequalities	<ol style="list-style-type: none"><li>1. Solve two-step inequalities XGQ</li><li>2. Graph solutions to two-step inequalities 6TT</li></ol>

# Chapter 5

## Ratios and Proportions

Textbook section	IXL skills
<b>5.1:</b> Ratios and Rates	<ol style="list-style-type: none"><li>1. Identify equivalent ratios ZFM</li><li>2. Write an equivalent ratio LQR</li><li>3. Equivalent ratios: word problems DJ8</li><li>4. Unit rates 2NB</li></ol>
<b>5.2:</b> Proportions	<ol style="list-style-type: none"><li>1. Do the ratios form a proportion? MJQ</li><li>2. Do the ratios form a proportion: word problems SHV</li></ol>
<b>5.3:</b> Writing Proportions	
<b>5.4:</b> Solving Proportions	<ol style="list-style-type: none"><li>1. Solve proportions TDA</li><li>2. Solve proportions: word problems WB7</li></ol>
<b>5.5:</b> Slope	<ol style="list-style-type: none"><li>1. Find the slope from a graph YH9</li><li>2. Find the slope from two points VZG</li></ol>
<b>5.6:</b> Direct Variation	<ol style="list-style-type: none"><li>1. Find the constant of proportionality from a table LKZ</li><li>2. Write equations for proportional relationships from tables 6GU</li><li>3. Identify proportional relationships by graphing AAN</li><li>4. Find the constant of proportionality from a graph ZUT</li><li>5. Write equations for proportional relationships from graphs JKH</li><li>6. Identify proportional relationships from graphs and equations NB5</li></ol>

# Chapter 6

## Percents

Textbook section	IXL skills
<b>6.1:</b> Percents and Decimals	<ol style="list-style-type: none"> <li>1. What percentage is illustrated? D7D</li> <li>2. Convert between percents, fractions, and decimals 2HW</li> </ol>
<b>6.2:</b> Comparing and Ordering Fractions, Decimals, and Percents	<ol style="list-style-type: none"> <li>1. Compare percents to fractions and decimals JAE</li> </ol>
<b>6.3:</b> The Percent Proportion	<ol style="list-style-type: none"> <li>1. Estimate percents of numbers 29D</li> <li>2. Percents of numbers and money amounts 93K</li> <li>3. Percents of numbers: word problems EXE</li> </ol>
<b>6.4:</b> The Percent Equation	<ol style="list-style-type: none"> <li>1. Solve percent equations 67F</li> <li>2. Solve percent equations: word problems JS6</li> </ol>
<b>6.5:</b> Percents of Increase and Decrease	<ol style="list-style-type: none"> <li>1. Percent of change BL7</li> <li>2. Percent of change: word problems 54S</li> </ol>
<b>6.6:</b> Discounts and Markups	<ol style="list-style-type: none"> <li>1. Percent of a number: tax, discount, and more SPN</li> <li>2. Find the percent: tax, discount, and more PBM</li> <li>3. Sale prices: find the original price BDA</li> <li>4. Multi-step problems with percents ZHX</li> </ol>
<b>6.7:</b> Simple Interest	<ol style="list-style-type: none"> <li>1. Simple interest E7Y</li> </ol>

# Chapter 7

## Constructions and Scale Drawings

Textbook section	IXL skills
<b>7.1:</b> Adjacent and Vertical Angles	
<b>7.2:</b> Complementary and Supplementary Angles	<ol style="list-style-type: none"><li>1. Identify complementary, supplementary, vertical, and adjacent angles HKG</li><li>2. Find measures of complementary, supplementary, vertical, and adjacent angles CST</li></ol>
<b>7.3:</b> Triangles	<ol style="list-style-type: none"><li>1. Classify triangles N5Z</li></ol>
<b>7.4:</b> Quadrilaterals	<ol style="list-style-type: none"><li>1. Identify trapezoids 7EH</li><li>2. Classify quadrilaterals I CDR</li></ol>
<b>7.5:</b> Scale Drawings	<ol style="list-style-type: none"><li>1. Scale drawings: word problems 84H</li></ol>



# Chapter 8

## Circles and Area

Textbook section	IXL skills
<b>8.1:</b> Circles and Circumference	1. Circumference of circles KS7
<b>8.2:</b> Perimeters of Composite Figures	1. Perimeter 7GQ
<b>8.3:</b> Areas of Circles	1. Area of circles YA8 2. Circles: word problems P56 3. Semicircles: calculate area, perimeter, radius, and diameter SMW
<b>8.4:</b> Areas of Composite Figures	1. Area of compound figures with triangles, semicircles, and quarter circles N97

# Chapter 9

## Surface Area and Volume

Textbook section	IXL skills
<b>9.1:</b> Surface Areas of Prisms	1. Surface area of cubes and prisms RFP
<b>9.2:</b> Surface Areas of Pyramids	
<b>9.3:</b> Surface Areas of Cylinders	1. Nets of three-dimensional figures 3R2
<b>9.4:</b> Volumes of Prisms	1. Volume of cubes and prisms URT
<b>9.5:</b> Volumes of Pyramids	

# Chapter 10

## Probability and Statistics

Textbook section	IXL skills
<b>10.1:</b> Outcomes and Events	
<b>10.2:</b> Probability	1. Probability of simple events ZZB
<b>10.3:</b> Experimental and Theoretical Probability	1. Probability of simple events and opposite events F88 2. Experimental probability 9AA
<b>10.4:</b> Compound Events	1. Compound events: find the number of outcomes HZR
<b>10.5:</b> Independent and Dependent Events	1. Identify independent and dependent events 9M6 2. Probability of independent and dependent events NED
<b>10.6:</b> Samples and Populations	1. Identify representative, random, and biased samples 5V3
<b>10.7:</b> Comparing Populations	