



Big Ideas Math - Modeling Real Life Alignments
Grade 7

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password

2. Select the **Grade 7 Chapter** you are working on:

- [Chapter 1: Adding & Subtracting Rational Numbers](#)
- [Chapter 2: Multiplying and Dividing Rational Numbers](#)
- [Chapter 3: Expressions](#)
- [Chapter 4: Equations and Inequalities](#)
- [Chapter 5: Ratios and Proportions](#)
- [Chapter 6: Percents](#)
- [Chapter 7: Probability](#)
- [Chapter 8: Statistics](#)
- [Chapter 9: Geometric Shapes and Angles](#)
- [Chapter 10: Surface Area and Volume](#)

3. Once you are in the correct Unit, click on the task name, which is directly linked to the Exemplars Library where you can download a printer-friendly PDF and lesson planning sheet for the corresponding task.

**** Note:** You must be logged into the Exemplars Library to access the tasks in this document.

Big Ideas Math: Grade 7

Chapter 1: Adding & Subtracting Rational Numbers

Sections	Common Core Standard	Exemplars Tasks
1.1: Rational Numbers		
1.2: Adding Integers	7.NS.A.1a	Benji's Accounting (Formative) Get Debt Free (Summative)
1.3: Adding Rational Numbers	7.NS.A.1b	
1.4: Subtracting Integers	7.NS.A.1c	
1.5: Subtracting Rational Numbers	7.NS.A.1d	
	7.NS.A.3	

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Chapter 2: Multiplying and Dividing Rational Numbers

Section	Common Core Standard	Exemplars Tasks
2.1: Multiplying Integers		
2.2: Dividing Integers		Fargo Heat Wave (Formative)
2.3: Converting Between Fractions and Decimals	7.NS.A.2a 7.NS.A.2b 7.NS.A.2c 7.NS.A.2d	Gumdrops (Formative)
2.4: Multiplying Rational Numbers	7.NS.A.3	Help With Our Next School Store Order (Summative)
2.5: Dividing Rational Numbers		

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Chapter 3: Expressions

Section	Common Core Standard	Exemplars Tasks
3.1: Algebraic Expressions	7.EE.A.1 7.EE.A.2	
3.2: Adding and Subtracting Linear Expressions		
3.3: The Distributive Property		
3.4: Factoring Expressions		

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Chapter 4: Equations and Inequalities

Section	Common Core Standard	Exemplars Tasks
4.1: Solving Equations Using Addition or Subtraction	7.EE.B.4a 7.EE.B.4b	<p>John's Field (Formative)</p> <p>The Clean Room (Formative)</p> <p>Concert Ticket Purchase (Summative)</p>
4.2: Solving Equations Using Multiplication or Division		
4.3: Solving Two-Step Equations		
4.4: Writing and Graphing Inequalities		
4.5: Solving Inequalities Using Addition or Subtraction		
4.6: Solving Inequalities Using Multiplication or Division		
4.7: Solving Two-Step Inequalities.		

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Chapter 5: Ratios and Proportions

Section	Common Core Standard	Exemplars Tasks
5.1: Ratios and Ratio Tables		
5.2: Rates and Unit Rates		
5.3: Identifying Proportional Relationships	7.RP.A.1 7.RP.A.2a 7.RP.A.2b 7.RP.A.2c	The L.L. Bean Bootmobile (Formative)
5.4: Writing and Solving Proportions	7.RP.A.2d	YouTube Star (Formative)
5.5: Graphs of Proportional Relationships	7.RP.A.3 7.G.A.1	Mile Markers (Summative)
5.6: Scale Drawings		

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Chapter 6: Percents

Section	Common Core Standard	Exemplars Tasks
6.1: Fractions, Decimals, and Percents	7.RP.A.3 7.EE.B.3	The Sweet Spot (Formative) Average American (Formative) 3.14159 We Think Math is Really Fine (Summative)
6.2: The Percent Proportion		
6.3: The Percent Equation		
6.4: Percents of Increase and Decrease		
6.5: Discounts and Markups		
6.6: Simple Interest		

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Chapter 7: Probability

Section	Common Core Standard	Exemplars Tasks
7.1: Probability	7.SP.C.5	Landing in the Carrot Patch (Formative) The Carnival (Formative) Fair Game Dilemma (Summative)
7.2: Experimental and Theoretical Probability	7.SP.C.6	
7.3: Compound Events	7.SP.C.7a	
7.4: Simulations	7.SP.C.7b	
	7.SP.C.8a	
	7.SP.C.8b	
	7.SP.C.8c	

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Chapter 8: Statistics

Section	Common Core Standard	Exemplars Tasks
8.1: Samples and Populations		
8.2: Using Random Samples to Describe Populations	7.SP.A.1 7.SP.A.2	Election Polling (Formative)
8.3: Comparing Populations	7.SP.B.3 7.SP.B.4	Game Practice (Formative)
8.4: Using Random Samples to Compare Populations		Beaded Math (Formative)

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Chapter 9: Geometric Shapes and Angles

Section	Common Core Standard	Exemplars Tasks
9.1: Circles and Circumference		
9.2: Areas of Circles		What's Left? (Formative)
9.3: Perimeters and Areas of Composite Figures	7.G.A.2 7.G.B.4 7.G.B.5	Mike's Mega Mart's Intersection (Formative)
9.4: Constructing Polygons	7.G.B.6	
9.5: Finding Unknown Angle Measures		Billy's Goat (Summative)

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Chapter 10: Surface Area and Volume

Section	Common Core Standard	Exemplars Tasks
10.1: Surface Areas of PRisms	7.G.A.3 7.G.B.4 7.G.B.6	7th Grade Service Project (Formative) Tiffany's Candles (Formative) The Great Pyramids (Summative)
10.2: Surface Areas of Cylinders		
10.3: Surface Areas of Pyramids		
10.4: Volumes of Prisms		
10.5: Volumes of Pyramids		
10.6: Cross Sections of Three-Dimensional Figures		