



Standards-Based Assessment + Instruction

**PROBLEM SOLVING**  
FOR THE | **21<sup>ST</sup> CENTURY**

BUILT FOR THE  
**COMMON CORE**

**Illustrative Math Alignments**  
Grade 4

1. Login to Exemplars Library: [library.exemplars.com](http://library.exemplars.com) with your school e-mail and password
2. Select the Grade 4 Unit you are working on:
  - [Unit 1: Factors and Multiples](#)
  - [Unit 2: Fraction Equivalence and Comparison](#)
  - [Unit 3: Extending Operations to Fractions](#)
  - [Unit 4: From Hundredths to Hundred-thousands](#)
  - [Unit 5: Multiplicative Comparison and Measurement](#)
  - [Unit 6: Multiplying and Dividing Multi-digit Numbers](#)
  - [Unit 7: Angles and Angle Measurement](#)
  - [Unit 8: Properties of Two-dimensional Shapes](#)
  - [Unit 9: Putting It All Together](#)
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.
4. [Looking for ideas on how to find time to integrate Exemplars tasks into your IM Curriculum? We've got you covered!](#)

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

## Illustrative Math: Grade 4

### Unit 1: Factors and Multiples

Section A: Understand Factors and Multiples (Lessons 1-4)	Section B: Find Factor Pairs and Multiples (Lessons 5-8)
<a href="#">Posters</a>	<a href="#">Hot Dogs and Buns for Friends</a>
<a href="#">Boxes for Mini Muffins</a>	<a href="#">Snacks on the Playground</a>
<a href="#">Marching Ants</a>	<a href="#">The Fitness Center</a>
Summative Assessment Task: <a href="#">Muffins in a Box</a>	Summative Assessment Task: <a href="#">Insects on Tiles</a>
	<a href="#">Poster Board Choices</a>
	Summative Assessment Task: <a href="#">A Bulletin Board</a>

## Illustrative Math: Grade 4

### Unit 2: Fraction Equivalence and Comparison

Section A: Size and Location of Fractions (Lessons 1-6)	Section B: Equivalent Fractions (Lessons 7-11)	Section C: Fraction Comparison (Lessons 12-17)
<a href="#">A New Rug</a>	<a href="#">Tom's Brownies</a>	<a href="#">The Largest Share</a>
<a href="#">A Snack for a Class</a>	<a href="#">Rectangular Pizza</a>	<a href="#">Favorite Crackers</a>
	Summative Assessment Task: <a href="#">Pans of Jell-O</a>	

## Illustrative Math: Grade 4

### Unit 3: Extending Operations to Fractions

Section A: Equal Groups of Fractions (Lessons 1-6))	Section B: Addition and Subtraction of Fractions (Lessons 7-14)	Section C: Addition of Tenths and Hundredths (Lessons 15-20)
<a href="#">Chocolate Bars</a>	<a href="#">Coloring Circles</a>	<a href="#">A New Quilt for Victoria</a>
<a href="#">Celery Sticks With Peanut Butter</a>	<a href="#">Magic Beans</a>	<a href="#">Experienced Bike Riders</a>
<a href="#">Potato Salad</a>	<a href="#">Popcorn for Everyone</a>	<a href="#">Tangram Challenge</a>
Summative Assessment Task: <a href="#">Sharing Muffins</a>	<a href="#">Tom's Brownies</a>	Summative Assessment Task: <a href="#">Cutting Pipes</a>
<a href="#">Keisha's Barbecue</a>	<a href="#">Rectangular Pizza</a>	
<a href="#">A Puzzle</a>	<a href="#">A Raspberry Pie</a>	
<a href="#">Planting Crops</a>	<a href="#">Cutting Strong String</a>	
Summative Assessment Task: <a href="#">Nine Friends</a>	Summative Assessment Task: <a href="#">Sawing a Board</a>	
	<a href="#">Hunting With Hawks</a>	
	<a href="#">Feeding Newborn Puppies</a>	
	<a href="#">Snails on the Move!</a>	
	<a href="#">Bean Plants for Mother's Day</a>	

## Illustrative Math: Grade 4

Unit 4: From Hundredths to Hundred-thousands

Section A: Decimals with Tenths and Hundredths (Lessons 1-5)	Section B: Place-value Relationships through 1,000,000 (Lessons 6-11)	Section C: Compare, Order, and Round (Lessons 12-17)	Section D: Add and Subtract (Lessons 18-23)
<a href="#">Basketball Practice</a>	Use tasks from Unit 4 Section A.	<a href="#">Traveling to Football Games</a>	<a href="#">A Million Pop Tops</a>
<a href="#">Bags of Dimes</a>		<a href="#">Hives and Nests</a>	<a href="#">The Botanical Gardens</a>
<a href="#">Eating Pizza</a>		<a href="#">Towers of Bricks</a>	<a href="#">A New Driveway</a>
<a href="#">Red Marbles</a>		Summative Assessment Task: <a href="#">A Computer Game</a>	<a href="#">Baseball Stadium Seats</a>
<a href="#">Helping Doctors</a>			Summative Assessment Task: <a href="#">Soccer Practice</a>
Summative Assessment Task: <a href="#">Two Girls and Two Cakes</a>			

## Illustrative Math: Grade 4

### Unit 5: Multiplicative Comparison and Measurement

Section A: Multiplicative Comparison (Lessons 1-6)	Section B: Measurement Conversion (Lessons 7-13)	Section C: Let's Put it to Work (Lessons 14-18)
<a href="#">Dog Years</a>	<a href="#">Thanksgiving Dinner</a>	<a href="#">A Jumping Good Time</a>
<a href="#">Making Cakes</a>	<a href="#">Hitting Golf Balls</a>	Summative Assessment Task: <a href="#">Cars on a Ramp</a>
<a href="#">Feeding Lizards and Frogs</a>	<a href="#">Softball Throw</a>	<a href="#">Babysitting Earnings</a>
<a href="#">Large Muffins</a>	<a href="#">A Movie and a Game Room</a>	<a href="#">Water, Water, Water</a>
		<a href="#">Xeno, the Xylophone Maker</a>
		Summative Task Assessment: <a href="#">A Geode</a>

## Illustrative Math: Grade 4

### Unit 6: Multiplying and Dividing Multi-digit Numbers

Section A: Features of Patterns (Lessons 1-4)	Section B: Multi-digit Multiplication (Lessons 5-12)	Section C: Multi-digit Division (Lessons 13-20)	Section D: Let's Put It to Work: Problem Solving with Large Numbers (Lessons 21-25)
<a href="#">Bird Watching</a>	<a href="#">A Brick Sidewalk</a>	<a href="#">Skateboard Wheels</a>	<a href="#">A Garden for Polly</a>
<a href="#">Popcorn</a>	<a href="#">A Field Trip</a>	Summative Assessment Task: <a href="#">Tile Border</a>	<a href="#">The Morgan's New Garden</a>
<a href="#">Apple Picking</a>	<a href="#">Selling Sport Posters</a>	<a href="#">Grandfather's Wallet</a>	<a href="#">A Puppy Kennel</a>
<a href="#">Picking Peaches</a>	<a href="#">Jigsaw Puzzles</a>	<a href="#">Drawing Paper</a>	<a href="#">A Sandbox</a>
<a href="#">Building With Blocks</a>	<a href="#">Equipment for a Park</a>	<a href="#">Sharing Jelly Beans</a>	<a href="#">Pencils</a>
Summative Assessment Task: <a href="#">Flying South</a>	<a href="#">Bags of Stickers</a>	<a href="#">A Gift</a>	
<a href="#">Mike's Decision</a>		Summative Assessment Task: <a href="#">Tires for Sale</a>	
<a href="#">Going on Vacation</a>			
<a href="#">Painting a House</a>			
<a href="#">A Summer Job for Jane</a>			
Summative Assessment Task: <a href="#">Susan's Allowance</a>			

## Illustrative Math: Grade 4

### Unit 7: Angles and Angle Measurement

Section A: Points, Lines, Segments, Rays, and Angles (Lessons 1-5)	Section B: The Size of Angles (Lessons 6-11)	Section C: Angle Analysis (Lessons 12-16)
	<a href="#">Acute Angles</a>	<a href="#">Spinner Fixing</a>
	<a href="#">Finding the Angles</a>	<a href="#">A Fist-Full of Angles</a>
	Summative Assessment Task: <a href="#">Pairs of Angles</a>	
	<a href="#">An Angle Challenge</a>	

## Illustrative Math: Grade 4

### Unit 8: Properties of Two-dimensional Shapes

Section A: Side Lengths, Angles, and Lines of Symmetry (Lessons 1-6)	Section B: Reason about Attributes to Solve Problems (Lessons 7-10)
<a href="#">Jordan's Math Challenge</a>	<a href="#">Gumdrop Shapes</a>
<a href="#">Pattern Block Tile Design</a>	<a href="#">All About Shapes</a>
<a href="#">A Design for Little Bear</a>	<a href="#">A Necklace for Cindy</a>
<a href="#">Working With Pentominoes</a>	<a href="#">Using Some Clues</a>
Summative Assessment Task: <a href="#">Pattern Block Tile Design</a>	<a href="#">Making Geometric Shapes</a>
	Summative Assessment Task: <a href="#">A Shape Game</a>

## Illustrative Math: Grade 4

### Unit 9: Putting It All Together

Section A: Reason with Fractions (Lessons 1-3)	Section B: Whole-number Operations (Lessons 4-6)	Section C: Solve Problems with Multiplication and Division (Lessons 7-9)	Section D: Creation and Design (Lessons 10-12)
<a href="#">The Pie Sale</a>	<a href="#">Helping a School</a>	<a href="#">Mrs. Ruben's Cookies</a>	Use tasks from any of the previous units.
Use tasks from Unit 2 and Unit 3.	<a href="#">Puppet Shows</a>	<a href="#">Packages of Crayons</a>	
	Use tasks from Unit 4 Section D and Unit 5 Section C.	Use tasks from Unit 6.	

## Integrating Exemplars Tasks into Illustrative Mathematics

When using a high-quality instructional resource like *Illustrative Mathematics*, it can initially feel overwhelming to determine how and when to incorporate opportunities for students to extend their learning—especially through performance tasks from *Exemplars*. There is no single “right” way to integrate *Exemplars* tasks into the *Illustrative Mathematics* resource.

Many factors will influence your approach, including:

- The amount of time available for math instruction and assessment
- The goals of the unit, section, or lesson, and
- Your students’ backgrounds, knowledge, and prior experiences.

### General Considerations

If your math instructional block exceeds 60 minutes, you may have more flexibility to incorporate an Exemplars task that aligns with the current lesson, section, or unit goals—or that reinforces a previously taught concept.

If your instructional time is 60 minutes or less, consider the following strategies:

- **Build in additional lesson days** that focus solely on an Exemplars task. Since the IM pacing guide for Grade 4, for instance, recommends 156–169 instructional days (out of a typical 180-day school year), the remaining days can be distributed throughout units to make space for performance tasks.
- **Omit optional lessons** within IM to create room for deeper exploration using Exemplars tasks.
- **Substitute the final unit, “Putting It All Together,”** with Exemplars tasks. In Grade 4, this could provide up to 17 additional days that can be redistributed across the school year.

### Embedding Exemplars Tasks into Daily Instruction

You might also choose to substitute one or more activities within a lesson with an Exemplars problem-solving task—especially if it aligns closely with the lesson’s learning goal. *(Follow below for suggestions for a Grade 4 unit)*

Other flexible options for using Exemplars tasks include:

- Alongside Center Activities and Practice Problems
- As a homework opportunity
- In place of a Section Checkpoint for formative assessment
- Alongside or in place of a Unit Assessment for summative purposes

### Grade 4 Lesson Specific Ideas

The following are possible opportunities to substitute one or more Illustrative Mathematics activities with an Exemplars Task. It is important to consider the lesson goals and what experiences your students will most benefit from.

#### Unit 1: Factors and Multiples

Lesson	Considerations for Activities to be Substituted	Exemplars Task Options
4	Activity 1-Sort the Multiplication Facts Activity 2-Introduce Find the Number—Factors	<a href="#">Posters</a> <a href="#">Boxes for Mini Muffins</a> <a href="#">Marching Ants</a> <a href="#">Summative Assessment Task: Muffins in a Box</a>
5	Activity 2-Party Hats and Noisemakers	<a href="#">Hot Dogs and Buns for Friends</a> <a href="#">Snacks on the Playground</a>

Lesson	Considerations for Activities to be Substituted	Exemplars Task Options
6	Activity 1-Questionable Lockers Activity 2-An Open-and-Shut Case	<a href="#">Hot Dogs and Buns for Friends</a> <a href="#">Snacks on the Playground</a>
8	Activity 1-My Rectangle Art Activity 2-Analyze the Rectangles	<a href="#">Hot Dogs and Buns for Friends</a> <a href="#">Snacks on the Playground</a> <a href="#">Hot Dogs and Buns for Friends</a> <a href="#">Snacks on the Playground</a> <a href="#">Poster Board Choices</a> <a href="#">A Bulletin Board</a>

*Exemplars* performance tasks can extend students' learning seamlessly within the *Illustrative Mathematics* resource because in addition to their alignment to the Common Core standards, they share a focus for developing deep conceptual understanding along with a balance of procedural concepts and application to real-world problems. To learn more about how these resources work together, check out our Case Study [here](#).