

Readiness Tasks for Grades 4 to 6

Pearson Mathology Readiness Tasks for Grades 4–6 is a responsive solution to support you in knowing where your students are, while providing next steps for all strands in the curriculum. They are founded on the big ideas in Math outlined in the new Pearson Mathology Learning Progression 4–9.

Why readiness tasks?

Canadian students have taken, and continue to take, many different learning paths. Mathology's Readiness Tasks are designed to allow students to demonstrate their understanding of key math concepts quickly and simply. You can use this information to help meet students where they are, either by revisiting concepts from a previous grade or working on concepts from the current grade's curriculum.

What are Mathology Readiness Tasks?

Tasks provide you with a snapshot of your students' understanding of specific math concepts.

- There are approximately 15–20 tasks per grade that reflect key concepts from the previous grade.
- Each task includes a maximum of 4 questions embedded in a relevant context that takes approximately 30–45 minutes for students to complete.
- Tasks are modifiable so you can choose to use only some questions or modify them to best suit your students.
- Analysis will vary based on the question type and the number of questions you choose to have students complete.
- An answer key provides a sample solution for each question.

Why readiness tasks?


Have students complete the tasks at the beginning of a unit of study to determine the best next steps for each of them.

Number Readiness Tasks Fluency with Addition and Subtraction

Some Costs for One Year to Own a Cat or a Dog

	Cat	Dog
Food for one year	\$470	\$865
Food bowls	\$30	\$30
Leash and collar	-	\$39
Litter box and litter	\$190	-
Scratching post	\$43	-
Carrying basket	\$67	-
Bed	\$30	\$50
Toys	\$65	\$65

1. Leslie has 1 dog and 1 cat.



Estimate which costs more:


- a scratching post and carrying basket for her cat
- a bed, leash, and collar for her dog

Explain your thinking.

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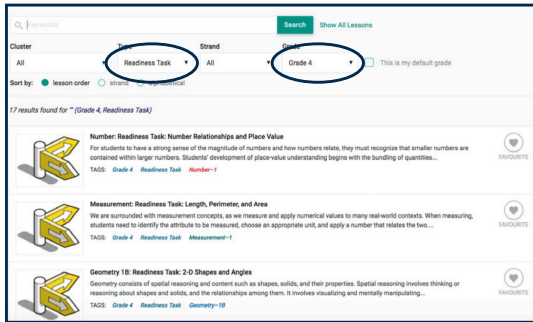
Number Readiness Tasks Fluency with Addition and Subtraction (cont'd)

2. Jamal has 1 dog and 1 cat.
Find how much more it costs to feed his dog than his cat.
Show your work.



3. Your family wants to get a cat or a dog.
Select your pet.
Choose 3 things to buy.
Find their cost.
Show your work.

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Where do I find the readiness tasks?

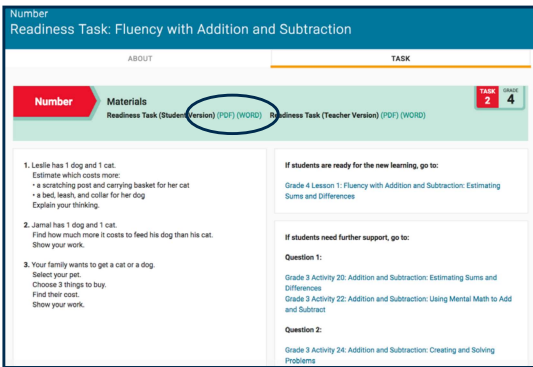
Tasks are in mathology.ca. There are three ways to search for the tasks:

- by keyword
- by curriculum
- by learning progression

Narrow your search by selecting type (e.g., “Readiness Tasks”) and/or grade (e.g., “Grade 6”).

Sharing with Students

Download the Word or PDF document then share it with students digitally or print out for student use.



How do I use them?

Have students engage in a math talk, task, or game to activate prior knowledge. Observe and listen to students’ interactions, vocabulary, and use of manipulatives, tools, or models. Once engaged, introduce the readiness task to the students. Have students

- answer one or all questions based on your time and need
- work individually, with a partner, or as part of a small group
- work on paper tasks, display tasks digitally, or send a digital copy to students

Grade 4 NUMBER		Overall Expectation B2: OPERATIONS		
Use knowledge of numbers and operations to solve mathematical problems encountered in everyday life				
Mathology Readiness Task	On-Grade Lessons: Math Makes Sense 4 (ON)	Prior Grade Lessons: Math Makes Sense 3 (ON)	Grade 4 Curriculum Specific Expectations	
Whole Number Operations (Addition and Subtraction) Estimating sums of 3-digit and 4-digit numbers. Using mental math to add and subtract 3-digit and 4-digit numbers. Subtracting 3-digit and 4-digit numbers. Using personal strategies to add 3-digit and 4-digit numbers.	Unit 2 Whole Numbers 4: Estimating Sums 5: Using Mental Math to Add 6: Adding 3-Digit Numbers 7: Adding 4-Digit Numbers 8: Estimating Differences 9: Using Mental Math to Subtract 10: Subtracting 3-Digit Numbers 11: Subtracting from a 4-Digit Number 12: Strategies Toolkit	Unit 2 Patterns in Addition and Subtraction 6: Adding and Subtracting 2-Digit Numbers 7: Using Mental Math to Add 8: Using Mental Math to Subtract 10: Estimating Sums and Differences 11: Adding 3-Digit Numbers 12: Subtracting 3-Digit Numbers 13: A Standard Method for Addition 14: A Standard Method for Subtraction	B2.1 use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations B2.4 represent and solve problems involving the addition and subtraction of whole numbers that add up to no more than 10 000 and of decimal tenths, using appropriate tools and strategies, including algorithms	

I have the results. Now what?

A planning tool outlines each task with key concepts, links to prior and on-grade lessons in *Mathology.ca*, and grade-level expectations or outcomes:

- **Mathology** Link directly to Mathology lessons for next steps for pre- or on grade concepts, tasks, and practice. Share
- PowerPoints and virtual tools directly (no student log-in required) by downloading or giving students the URL for the virtual tools so they can use the material. Downloadable line masters for them to work on.
- **Pearson Learning Progression** See where your students are on the Learning Progression—the big ideas that led to their understanding and the big ideas they are moving toward.

