

Pearson



## Readiness Tasks for Grades 4 to 6

Name \_\_\_\_\_ Date \_\_\_\_\_

**Number Relationships**

Use these facts about bees to answer the questions below.

**0.5 mL**  
A bee will collect about 0.5 mL of honey in its lifetime.

**60 000+**  
In one hive, there are 60 000 or more bees.

**225 000**  
Each day, about 225 000 flowers are visited by the bees in one hive.

**24 km/h**  
A bee flies at an average speed of 24 km/h.

**160 000 km**  
To collect 1 kg of honey, the bees in one hive will travel about 160 000 km.

1. How many base-ten thousands cubes would be needed to represent 60 000?

- 6
- 60
- 600
- 6000

Mathology 6, Number Readiness Tasks  
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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*.

Readiness Tasks are available for Grades 4–6. Next steps lessons, for now, are generated from *Math Makes Sense* to help get you started while we develop and add new Mathology lessons over the coming year.

### 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 assign 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.

### When would I use them?

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

Name \_\_\_\_\_ Date \_\_\_\_\_

**Number Relationships (cont'd)**

2. How many hives would be needed for bees to visit about 1 000 000 flowers in one day?  
Show your work.

3. A bee can fly between 2 h and 12 h in a day.  
A bee flies 24 km in 1 h.

- How far can a bee fly in 2 h?
- How far can a bee fly in 12 h?
- What is the difference between these distances?

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”).

## Teaching virtually?

Download the Word document then share it with students via your district’s learning management system. When students have completed the questions, have them take a picture or upload their work to the system.

## 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, on tasks displayed digitally, or on a digital copy you send them

## I have the results. Now what?

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

- **Math Makes Sense:** Link directly to *Math Makes Sense* online student books and teacher guides for next steps for pre- or on-grade concepts, tasks, and practice. Share student book files directly (no student log-in required) by giving students the URL so they can see the material. Provide 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.
- **Mathology.ca:** Look for new, engaging on-grade lessons as we add them to the site over the coming year.

Grade 6 NUMBER			
Overall Expectation B1: NUMBER SENSE			
Demonstrate an understanding of numbers and make connections to the way numbers are used in everyday life			
Mathology Readiness Task	On-Grade Lessons: <i>Math Makes Sense 6</i> (ON)	Prior Grade Lessons: <i>Math Makes Sense 5</i> (ON)	Grade 6 Curriculum Specific Expectations
Task	Key Concepts		
Number Relationships	Understanding place value for numbers greater than 1 000 000. Solving problems involving whole numbers. Understanding unit rates and ratios.	Unit 2 Whole Numbers 1: Exploring One Million 5: Prime and Composite Numbers	Unit 2 Operations 1: Representing, Comparing and Ordering Numbers 4: Adding Three Numbers 5: Adding Three Numbers 6: Subtracting with 4-Digit Numbers  B1.1 read and represent whole numbers up to and including one million, using appropriate tools and strategies, and describe various ways they are used in everyday life.  B1.2 read and represent integers, using a variety of tools and strategies, including horizontal and vertical number lines

