A Tour of Your Textbook

Chapter Opener

Each chapter begins with a two-page spread which introduces you to what you will learn in the chapter.

Foldables™



Each chapter includes a Foldable to help you organize what you are learning and keep track of what you need to work on. Instructions on where and how to record information on the Foldable will help you use it as a study tool.

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Numbered Sections

The numbered sections often start with a visual to connect the topic to a real setting. The purpose of this introduction is to help you make connections between the math in the section and the real world, or to make connections to what you already know.





Math Link

Each chapter introduces a Math Link that helps you connect math and your own personal experiences. You will often revisit the Math Link at the end of a lesson. This is an opportunity for you to build concepts and understanding. The Wrap It Up! at the end of each chapter gives you an opportunity to demonstrate your understanding of the chapter concepts.





Check Your Understanding

- **Practise:** These are questions to check your knowledge and understanding of what you have learned.
- **Apply:** In these questions, you need to apply what you have learned to solve problems.
- Extend: These questions may be more challenging and may make connections to other lessons.



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How does MathLinks 8 help you learn?

Understanding Vocabulary

Key Words are listed on the Chapter Opener. Perhaps you already know the meaning of some of them. Great! If not, watch for these terms the first time they are used in the chapter. The meaning is given close by in the margin.

A Literacy Link at the beginning of each chapter provides tips to help you read and interpret the chapter content.

Other Literacy Links throughout the chapter assist you in reading and interpreting items in math. These tips will help you in other subjects as well.

Understanding Concepts

The Explore the Math activities are designed to help you construct your own understanding of new concepts. The key question tells you what the activity is about. Short steps, with illustrations, lead you to make some conclusions in the Reflect on Your Findings question.

The **Examples** and their worked **Solutions** include several tools to help you understand the work.

- Notes in a thought bubble help you think through the steps.
- Sometimes different methods of solving the same problem are shown. One way may make more sense to you than the other.
- Problem Solving Strategies are pointed out.
- Calculator key press sequences are shown where appropriate.
- Most Examples are followed by a **Show You Know**. These questions help you check that you understand the skill covered in the Example.





Literacy 🔁 Li

A KWL chart can help you understand and le

Copy the following KWL chart into your math journal or notebook. Brainstorm with a partner what you already know about representing data • Record your ideas in the first column. List any questions you have about representing data in the second column.

 After you complete the chapter, complete the final column of the KWL chart. Representing Data

> What I Want to Know

The K in KWL stands for Know
The W in KWL stands for Want

• The L in KWL stands for Learned



The exercises begin with **Communicate the Ideas**. These questions focus your thinking on the **Key Ideas** you learned in the section. By discussing these questions in a group, or doing the action called for, you can see whether you understand the main points and are ready to begin the **Check Your Understanding**.

The first few questions in the **Check Your Understanding** can often be done by following one of the worked Examples.



Problem Solving

At the beginning of the student resource there is an overview of the four steps you can use to approach **Problem Solving**. Samples of problem solving strategies are shown. You can refer back to this section if you need help choosing a strategy to solve a problem. You are also encouraged to use your own strategies.



Mental Math and Estimation

This Mental Math and Estimation logo does one

- **M[®]E** of two things:
 - 1. It signals where you can use mental math and estimation.
 - 2. It provides useful tips for using mental math and estimation.

Other Features

Did You Know? The Columbia Icefield is a major source of fresh water. Melt water from the icefield feeds rivers that flow to the Arctic Ocean, the Pacific Ocean, and Hudson's Bay.

Did You Know?

These are interesting facts related to math topics you are learning.

History Dink In Roman times, the term centurion was used to describe an officer in the Roman Legion who was in charge of 100 soldiers. There was one centurion per cent, meaning there was one centurion per 100 soldiers. What other English words do you know



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Web Links

You can find extra information related to some questions on the Internet. Log on to **www.mathlinks8.ca** and you will be able to link to recommended Web sites.

Chapter Review and Practice Test

There is a **Chapter Review** and a **Practice Test** at the end of each chapter. The chapter review is organized by section number so you can look back if you need help with a question. The test includes the different types of questions that you will find on provincial tests: multiple choice, numerical response, short answer, and extended response.

Cumulative Review

To help you reinforce what you have learned, there is a review of the previous four chapters at the end of Chapters 4, 8, and 12. Each of these special reviews is followed by a Task.

Task

These tasks require you to use skills from more than one chapter. You will also need to use your creativity.

Math Games and Challenge in Real Life

The last two pages of each chapter provide **Math Games** and a **Challenge in Real Life. Math Games** provide an interesting way to practise the skills you learned during the chapter. Most games can be played with a partner.

Some can be played with a larger group. Enjoy them with your friends and family. The **Challenge in Real Life** provides an interesting problem that shows how the math you learned in the chapter relates to jobs, careers, or daily life.

Answers

Answers are provided for all Practise, Apply, Extend, and Review questions. Sample answers are given for questions that have a variety of possible answers or that involve communication. If you need help, read the sample and then try to give an alternative response. Answers are omitted for the Math Link questions and for Practice Tests because teachers may use these questions to assess your progress.

Glossary

Refer to the illustrated **Glossary** at the back of the student resource if you need to check the exact meaning of mathematical terms.



