## A Tour of Your Textbook

## Chapter Opener

- This two-page spread introduces the concepts you will learn about in the chapter.
- The specific curriculum expectations that the chapter covers are listed.
- Key Terms lists the mathematical terms that are introduced and defined in the chapter.


## Prerequisite Skills

- Questions review key skills from previous mathematics courses that are needed for success with the new concepts of the chapter.
- The chapter problem is introduced. Questions related to the chapter problem occur in the Apply sections of the exercises throughout the chapter and are identified by a Chapter Problem descriptor.



## Numbered Sections

## Lesson Opener

Lessons start with a photograph and short description of a real-world setting to which the mathematical concepts relate.

## Investigate

These are step-by-step activities, leading you to build your own understanding of the new concepts of the lesson. Many of these activities can best be done by working in pairs or small groups to share ideas.


## Examples

- Worked Examples provide model solutions that show how the new concepts are used.
- The Examples and their worked Solutions include several tools to help you understand the work.
- Side notes help you think through the steps.
- Sometimes different methods of solving the same problem are shown.

One method may make more sense to you than the other.

- Calculator key strokes for scientific, Direct Algebraic Logic (DAL), and graphing calculators are provided. Sample graphing calculator screens are shown.


## Key Concepts

- This feature summarizes the concepts learned in the lesson.
- You can refer to this summary when you are studying or doing homework.


## Discuss the Concepts

These questions allow you to reflect on the concepts of the section. By discussing these questions in a group, you can see whether you understand the main points and are ready to start the exercises.


## Exercises

Practise (A)

- These questions provide an opportunity to practise your knowledge and understanding of the new concept.
- To help you, questions are referenced to the worked Examples.


## Apply (B)

- These questions allow you to use what you learned to solve problems and make connections among concepts. In answering these questions you will be integrating
 many of the math processes.
- Some questions are specifically designed to help you improve your literacy skills. These questions are identified with a Literacy Connect descriptor.


## Extend (C)

- These are more challenging and thought-provoking questions.
- Some Extend questions may require integration of skills from other areas.


## A Tour of Your Textbook

## Technology

Scientific calculators are useful for many sections. Key-stroke sequences are provided for techniques that may be new to you.

- A TI-83 Plus or TI-84 Plus graphing calculator is useful for some sections, particularly for data analysis and for graphing relations.

- The Geometer's Sketchpad $\circledR^{\circledR}$ is used in several sections for investigating concepts related to measurement and geometry. Alternative steps for doing investigations using pencil and paper are provided for those who may not have access to this computer software.
- Spreadsheet software and Fathom ${ }^{\text {mis }}$ are used in the Statistics chapter.
- The Technology Appendix, on pages 514-549, provides detailed instructions for some basic functions of the technology tools used in the text. The Appendix will be helpful to anyone who has not used these tools before.


## Technology Tip

This margin feature provides helpful hints or alternative strategies for working with the specific tools shown in a solution.


## Assessment

## Discuss the Concepts

－These questions provide an opportunity to assess your understanding of the key concepts before proceeding to use your skills in the Practise， Apply，and Extend questions．
－Through this discussion you can identify any concepts or areas you need to study further．

## Special Apply questions：

－Questions with the Chapter Problem descriptor are related to the Chapter Problem．
－The last Apply question of some sections provides an opportunity to demonstrate your knowledge and understanding，and your ability to apply，think，and communicate what you have learned． Achievement Check questions occur every two or three sections and are designed to assess learning of the key concepts of those few sections．


## Practice Test

Each chapter ends with a Practice Test． Most tests include some multiple－ choice questions．Practising this type of question will help you prepare for college entrance tests．

## Chapter Problem Wrap－Up

This summary problem occurs at the end of the Practice Test．The Chapter Problem Wrap－Up may be assigned as a project．


## Tasks

Tasks are presented at the end of chapters 3,5 ，and 9 ．These are more involved problems that require you to use several concepts from the preceding chapters．Each task has multi－part questions and will take at least 20 min to complete．

## Task

Road to the Stanley Cup


 Wome－ke addantage for gemes $1,2,5$ ，and 7 ．



random numbers from 1 to 10 ．

40\％chance of winning an away game．
For an away game（gemes 12 ．



If the numberi． $6,7,8,9,9$ ，or 510 appeara，the tee leafs wis sose their tir game．



 | $n 4$ gimes． |
| :--- |
| $n 5$ games． | ．等家相相


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## A Tour of Your Textbook

## Chapter Review

- This feature appears at the end of each chapter.
- By working through these questions, you will identify areas where you may need more review or study before doing the Practice Test.



## Other Features

## The Mathematical Process

Seven mathematical processes that are integral to learning mathematics:

- problem solving
- reasoning and proving
- reflecting
- selecting tools and computational strategies
- connecting
- representing

- communicating

The processes are interconnected and are used throughout the course. Some exercises are flagged with a mathematical processes graphic to remind you which of the processes are involved in solving the problem.

## Math Connect

This margin feature points out connections among topics in the course or provides extra information related to an example.


## Literacy Connect

This margin feature provides tips to help you read and interpret problems.

## Literacy Connect

Risk is the uncertainty or the likelihood that an investment will decrease in value.

## Internet Links

In some questions, it is suggested that you use the Internet to help solve the problem or to research or collect information. Some direct links are provided via our Web site www.mcgrawhill.ca/links/foundations11.

## Back Matter

## Answers

Complete answers are provided on pages 550-587 for all questions in each Prerequisite Skills, numbered section, Chapter Review, Practice Test, and cumulative review. Answers for the Investigate, Discuss the Concepts, and Achievement Check questions are provided in Foundations for College Mathematics 11 Teacher's Resource.

## Glossary

A complete illustrated glossary is included on pages 588-594. It includes all the key terms of the text, as well as other mathematical terms.

## Index

A general index is included on pages 595-597.

