

Foundations of Math 12 LG 1&2

Investing Money



INTRODUCTION:

Much of your future will depend on an understanding of how investing money can work to your advantage. The principles of compounding can lead to a financially secure future when it comes to RRSP's, TFSA's, and other investment opportunities. This guide will introduce you to the concepts of simple and compound interest.



LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) solve problems involving simple interest.
- 2) solve problems involving compound interest.
- 3) solve problems involving regular payments and portfolios.



EVALUATION:

Complete the LG 1-2 quiz.



RESOURCES NEEDED:



Foundations of Mathematics 12 Text.

LEARNING ACTIVITIES:



Expectation #1: Solve problems involving simple interest.



1. [Watch and take notes on instructional video on Simple Interest.](#)



2. In the Foundations of Mathematics 12 text, read Section 1.1 pages 6-7 and make sure you pay attention to the green boxes.
3. Work through Example 1 on page 8. Complete **Your Turn** on page 9.
4. Work through Example 3 on page 10. Complete **Your Turn** on page 11.
5. Complete #1, 2, 3, 4, 5, 6, 7, 9 on pages 14-16.



Expectation #2: Solve problems involving compound interest.



1. [Watch and take notes on instructional video on Compound Interest.](#)



2. In the Foundations of Mathematics 12 text, read Section 1.2 pages 18-19. After reading “In Summary”, you should have an understanding of the difference between simple and compound interest.
3. Complete #1 on page 19.

4. In Section 1.3, work through Examples 1-5 on pages 20-28.
5. Read “In Summary” on page 29.
6. Complete #2, 3, 4, 7, 8, 10, 11, 12, 13, 14.

7. In Section 1.4, work through “Investigate the Math” on pages 34-35.
8. Work through Examples 1-3 on pages 35-39.
9. Read “In Summary” on page 39.
10. Complete #1, 4, 5, 7, 8, 9, 10, 12, 14, 16 on pages 40-42.



Expectation #3: Solve problems involving regular payments and portfolios.



1. [Watch and take notes on instructional video on Investments/Loans.](#) NOTE: We are only working with investments in this learning guide but loans will be covered in LG 4-5 and is very similar from a mathematical standpoint so it would be good to watch it all.



2. In the Foundations of Mathematics 12 text, work through Section 1.5 Examples #1-5 on pages 47-53. NOTE: A financial calculator is required for answering these questions. Here is [one](#) you can use and here is [another](#).
3. Read “In Summary” on page 54.
4. Complete #2, 3, 4, 5, 6, 7, 9, 12, 14, 16, 19 on pages 55-57.

5. In Section 1.6, work through Examples 1-3 on pages 59-64.
6. Read “In Summary” on page 64.
7. Complete #2, 3, 4, 6, 7, 8, 11 on pages 64-67.

REVIEW

Now that you have completed some practice questions, you could review by doing any of the following:

- Chapter Self-Test on page 68
- Practicing on pages 71-72.
- LG 1-2 practice quizzes located [here](#).

Once you are ready, email your teacher for the LG 1-2 quiz.