

Chapter 8 Review

Mathematics 10, pages 460–462

Suggested Timing

60–90 min

Materials

- grid paper
- ruler
- graphing calculator or computer with graphing software

Blackline Masters

BLM 8–5 Section 8.1 Extra Practice
 BLM 8–6 Section 8.2 Extra Practice
 BLM 8–7 Section 8.3 Extra Practice

Planning Notes

Have each student complete the review for the chapter individually. Students should note the questions that they are unable to complete. Encourage students to use their chapter Foldable and/or their notes and student resource to go back and work through any questions they had difficulty with. Have students work through any questions that remain unsolved in groups of two or three students. This allows students to diagnose their own areas of strength and weakness. Suggest to students that they use previously unassigned Check Your Understanding questions in the relevant sections of the student resource to practise any areas that require remediation.

Have students who are not confident discuss strategies with you or a classmate. Encourage students to refer to their summary notes, worked examples, and previously completed questions in the related sections of the student resource. Have students make a list of questions that they need no help with, a little help with, and a lot of help with. They can use this list to prepare for the practice test.

Meeting Student Needs

- Students who require more practice on a particular topic may refer to **BLM 8–5 Section 8.1 Extra Practice**, **BLM 8–6 Section 8.2 Extra Practice**, and **BLM 8–7 Section 8.3 Extra Practice**.

- Have students refer to the student learning outcomes posted in the classroom. Given approximately 10 min, students should create a summary of what they have learned for each outcome, listing the key steps when possible. At this time, students should highlight the areas that they are having difficulty with. Once these are identified, students will know which section(s) of the review to focus on.
- Some of the word problems involve a lot of detail and reading. Allow students enough time to work through these problems and visualize the situations and how the equations relate to the context; for example, #4, 8, and 11.
- Emphasize to students the importance of drawing diagrams to help organize the information in a problem. This skill will be especially useful for #5, 7, 8, and 11. A diagram of the situation may provide students with an extra way to check the reasonableness of their answers.

ELL

- For #7, some students may not be familiar with the term *atmospheric pressure*.
- Some students may need you to explain the meaning of *investment* and *rate of interest* when working on #13.

Enrichment

- Ask students to solve the following, using a system of linear equations: Suppose a son is $\frac{1}{13}$ the age of his dad. In ten years, the dad will be three times as old as his son is in ten years. How old is the dad now? ($d = 13s$ and $d + 10 = 3(s + 10)$. The dad is 26 now.)

Gifted

- Ask students to create a question similar to the age question above. The method and solution must be shown.



Some students may already be familiar with the skills handled in this review. To provide enrichment and extra challenge for gifted students, go to www.mhrmath10.ca and follow the links.

Assessment	Supporting Learning
Assessment for Learning	
<p>Chapter 8 Review</p> <p>The Chapter 8 Review is an opportunity for students to assess themselves by completing selected questions in each section and checking their answers against the answers in the back of the student resource.</p>	<ul style="list-style-type: none"> • Encourage students to express their thinking by identifying the initial values and rates or slopes of the relationships in the problems. • Have students check the contents of the What I Need to Work On section of their Foldable and do at least one question related to each listed item. • Have students revisit any section that they are having difficulty with prior to working on the chapter test. • Consider assigning students #1–5, 10, and 12 as the minimum questions that will cover the chapter.