Chapter 1 Practice Test

Student Text Pages
66–67

Suggested Timing
40–80 min

Tools
- scientific calculators

Related Resources
BLM 1-19 Chapter 1 Practice Test
BLM 1-20 Chapter 1 Test

Accommodations

Visual—allow access to technology for drawing nets and solving optimization problems

Spatial—supply students with models that relate to the questions. Provide grid paper for drawing nets and component shapes.

Motor—supply students with construction paper, scissors, rulers, and tape so they can create their own models if you cannot find models that match the questions

Language—post labelled drawings of the various shapes and models used in the chapter

Memory—have students create a formula sheet containing all the formulas used in this chapter. Provide worked examples for volume, surface area, and optimization to use as a study guide.

ESL—have students work with a partner to assist with reading the questions

Study Guide

Use this study guide to direct students who have difficulty with specific questions to appropriate examples to review.

Question	Section(s)	Refer to
1	1.2	Example 1 (page 19)
2	1.3	Investigate (pages 26–27)
3	1.2	Example 1 (page 19)
4	1.5	Investigate 2 (pages 47–53)
5	1.1	Example 1 (page 7)
6	1.2	Example 1 (page 19)
7	1.6	Example 1 (pages 54–56)
8	1.3	Example 1 (page 28)
9	1.2 1.3	Example 2 (page 20) Investigate, Part B (page 27)
10	1.2	Example 3 (pages 21–22)
11	1.4 1.4	Investigate (pages 36–38) Example (pages 38–41)
12	1.1	Example 2 and 3 (pages 8–10)

Teaching Suggestions

The Practice Test can be assigned as an in-class or take-home assignment. If it is used as an assessment, use the following guidelines to help you evaluate your students.

Can students do each of the following?
- calculate the area of simple and composite two-dimensional figures
- solve problems related to total area and net area
- calculate the volume of prisms and cylinders
- calculate the volume of composite three-dimensional figures
- calculate the surface area of prisms and cylinders
- calculate the surface area of composite three-dimensional figures
- solve problems related to optimizing perimeter and area
- solve problems related to optimizing volume and surface area

Summative Assessment

- After students complete **BLM 1-19 Chapter 1 Practice Test**, you may wish to use **BLM 1-20 Chapter 1 Test** as a summative assessment.