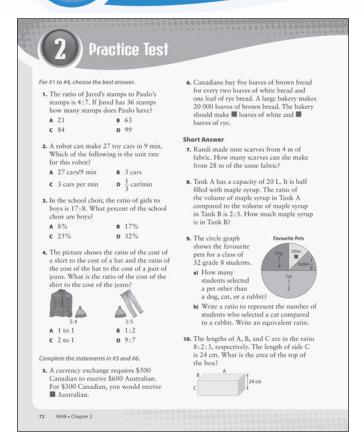
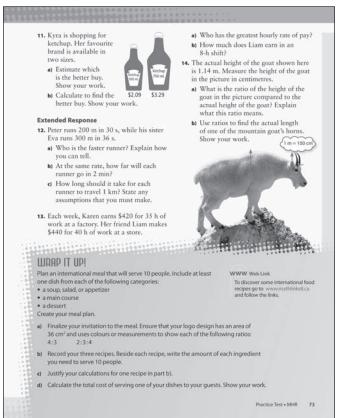
# (2) Practice Test





### MathLinks 8, pages 72-73

#### **Suggested Timing**

40-50 minutes

#### Materials

ruler

#### **Blackline Masters**

BLM 2-12 Chapter 2 Test

# **Planning Notes**

Have students start the practice test by writing the question numbers in their notebook. Have them indicate questions with which they need a little help, a lot of help, or no help. Have students first complete the questions they know they can do, followed by those they know something about. Finally, have students do their best on the questions that they are struggling with.

This practice test can be assigned as an in-class or take-home assignment. Provide students with the number of questions they can comfortably do in one class. These are the minimum questions that will meet the related curriculum outcomes: #1–#3, #6, #9, #11, and #12.

# **Study Guide**

Question(s)	Section(s)	Refer to	The student can
1, 6, 7, 8	2.3	Example 2	✓ solve problems using proportional reasoning ✓ use more than one method to solve proportional reasoning problems
2, 5, 12, 13	2.2	Example 1	<ul> <li>✓ express rates using words and symbols</li> <li>✓ identify, describe, and record rates from real-life examples</li> <li>✓ solve problems using rates</li> </ul>
3, 10	2.1	Examples 1, 2	✓ represent three-term ratios ✓ represent a ratio as a fraction ✓ represent a ratio as a percent ✓ solve problems using ratios
4, 9	2.1	Example 1	<ul> <li>✓ represent two-term ratios</li> <li>✓ identify, describe, and record ratios from real-life examples</li> <li>✓ solve problems using ratios</li> </ul>
11	2.2	Example 2	✓ solve problems using rates
14	2.1	Explore the Math	<ul> <li>✓ represent two-term ratios</li> <li>✓ identify, describe, and record ratios from real-life examples</li> <li>✓ solve problems using ratios</li> </ul>

## **Answers**

#### **Chapter 2 Practice Test**

- **1.** B **2.** C **3.** D **4.** B
- 5. 360 Australian dollars
- **6.** 8000, 4000
- **7.** 63 scarves
- **8.** 25 L
- **9.** a) 4 students b) 4:1
- **10. a)** 1024 cm<sup>2</sup>
- **11. a)** Estimates may vary. Example: Small size: round to \$2.00/500 mL, which is  $40 \/epsilon / 100$  mL; Large size: round to \$3.20/800 mL, which is  $40 \/epsilon / 100$  mL. The estimates are the same.
  - b) Small size: 0.418¢/mL; Large size: 0.4386¢mL. Therefore, the small size is a better buy.

- **12.** a) Peter ran at 6.67m/s and Eva ran at 8.33 m/s. Therefore, Eva is faster.
  - b) Peter would run 800 m in 2 min; Eva would run 1000 m in 2 min.
  - c) Peter would take 2.5 min to run 1 km; Eva would take 2 min to run 1 km. Assumptions may vary. Example: Assume they maintain the same rate of speed for the longer distance.
- 13. a) Karen earns more per hour. She earns \$12/h while Liam earns \$11/h.b) \$88
- $\textbf{14.} \ Answers \ may \ vary \ slightly \ depending \ on \ accuracy \ of \ measurement.$ 
  - a) 4.2 :114; This ratio compares the reduction to the actual height of the mountain goat.
  - **b)**  $\frac{4.2}{114} = \frac{0.9}{x} = 24.43$ ; Actual length of a horn is 24.43 cm.

Assessment	Supporting Learning
Assessment as Learning	
Chapter 2 Self-Assessment Have students review their earlier responses in the What I Need to Work On sections of their chapter Foldable.	• Have students use their responses on the practice test and work they completed earlier in the chapter to identify areas in which they may need to reinforce their understanding of skills or concepts. Before the chapter test, coach them in the areas in which they are having difficulties.
Assessment of Learning	
Chapter 2 Test After students complete the practice test, you may wish to use BLM 2–12 Chapter 2 Test as a summative assessment.	<ul> <li>Consider allowing students to use their chapter Foldable.</li> <li>Consider using the Math Games on page 74 or the Challenge in Real Life on page 75 to assess the knowledge and skills of students who have difficulty with tests.</li> </ul>