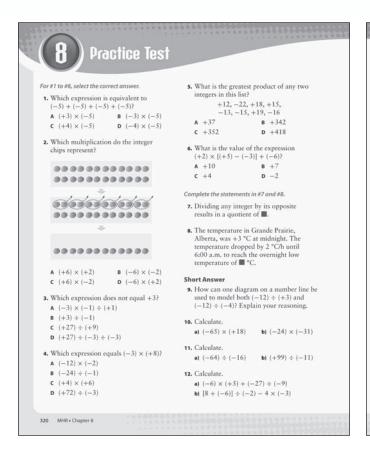
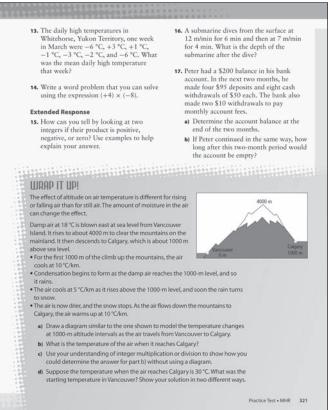
# Practice Test ( 8





## MathLinks 8, pages 320-321

#### **Suggested Timing**

40-50 minutes

#### Materials

• red and blue integer chips

#### **Blackline Masters**

BLM 8–12 Chapter 8 Test

# **Planning Notes**

Allow time for students to clarify any misunderstandings before beginning the practice test. 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–#4, #6, #9, #11–#13, and #15.

# **Study Guide**

Question(s)	Section(s)	Refer to	The student can
1	8.1	Explore the Math	✓ multiply integers
2	8.1	Example 1	✓ multiply integers using integer chips
3	8.2 8.4 8.5	Example 1 Example 1 Examples 1, 2	<ul> <li>✓ apply a sign rule when multiplying integers</li> <li>✓ apply a sign rule when dividing integers</li> <li>✓ apply the order of operations to solve problems involving integers</li> </ul>
4	8.2 8.4	Example 1 Example 1	✓ apply a sign rule when multiplying integers ✓ apply a sign rule when dividing integers
5, 15	8.2	Example 2	✓ apply a sign rule when multiplying integers
6, 12	8.5	Example 1	✓ apply the order of operations to solve problems involving integers
7, 11	8.4	Example 1	✓ apply a sign rule when dividing integers
8, 13, 16, 17	8.5	Example 2	✓ decide when to multiply integers and when to divide integers in solving problems ✓ apply the order of operations to solve problems involving integers
9	8.3	Example 1	✓ determine integer quotients using a number line
10	8.2	Example 1	✓ apply a sign rule when multiplying integers
14	8.2	Example 2	✓ determine integer products

## **Answers**

#### **Chapter 8 Practice Test**

**1.** C **2.** C **3.** B **4.** D **5.** C **6.** A **7.** -1 **8.** -9

**9.** Answers may vary. Example: First, draw an arrow from zero to -12. Then, cut the arrow into three equal parts. The value of the units in each part represents the quotient for  $(-12) \div (+3)$ . On the same diagram, divide the arrow into parts that each represent -4. Counting the number of parts gives the quotient for  $(-12) \div (-4)$ .

**10.** a) -1170 b) 744 **11.** a) 4 b) -9

**12.** a) -27 b) 11 **13.** -2 °C

- 14. Answers may vary. Example: Faye made four withdrawals of \$8 each from her bank account. How much did she withdraw in total?
- **15.** Explanations may vary. Example: The product of two integers with the same sign is positive. The product of two integers with different signs is negative. The product of two integers will be zero if either of the integers is zero. For example,  $-8 \times (-9) = +72$ ,  $-14 \times (+5) = -70$ , and  $0 \times (-19) = 0$ .

**16.** 100 m **17.** a) \$160 b) eight months

Assessment	Supporting Learning			
Assessment as Learning				
Chapter 8 Self-Assessment Have students review their earlier responses in the What I Need to Work On section of their chapter Foldable.	Before completing the Chapter 8 Practice Test, ask students to complete the What I Learned column from the KWL chart they started at the beginning of the chapter. Discuss how students might now answer their questions in the What I Want to Know column and which ones still need to be answered.  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 8 Test After students complete the practice test, you may wish to use BLM 8–12 Chapter 8 Test as a summative assessment.	<ul> <li>Consider allowing students to use their chapter Foldable.</li> <li>Consider using the Math Games on page 322 or the Challenge in Real Life on page 323 to assess the knowledge and skills of students who have difficulty with tests.</li> </ul>			