

#### MathLinks 9, pages 246-247

#### **Suggested Timing**

40-50 minutes

# Materials

- grid paper
- ruler

#### **Blackline Masters**

Master 8 Centimetre Grid Paper Master 9 0.5 Centimetre Grid Paper BLM 6-12 Chapter 6 Test

# **Planning Notes**

Make copies of Master 8 Centimetre Grid Paper and Master 9 0.5 Centimetre Grid Paper available for students to draw graphs for #8 and 9. Have students start the practice test by writing the question numbers in their notebook. Have them indicate which questions they need a little help with, a lot of help with, or no help with. Have students first complete the questions they know they can do. Then, have them complete the questions they know something about. Finally, have students do their best on the questions that they think they will need extra coaching with.

Practice Test

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: #1-10.

# **Study Guide**

Question(s)	Section(s)	Refer to	The student can
#1, 2	6.1	Example 1	<ul> <li>✓ represent pictorial, oral, and written patterns with linear equations</li> <li>✓ solve problems that involve pictorial, oral, and written patterns using a linear equation</li> </ul>
#3	6.1 6.3	Example 2 Example 1	<ul><li>✓ verify linear equations by substituting values</li><li>✓ match equations of linear relations with graphs</li></ul>
#4,7	6.2	Example 2	<ul><li>✓ extend graphs to determine an unknown value</li><li>✓ estimate values beyond known values on a graph</li></ul>
#5	6.2	Example 1	$\checkmark$ estimate values between known values on a graph
#6	6.1	Examples 1, 2	<ul> <li>✓ represent pictorial, oral, and written patterns with linear equations</li> <li>✓ solve problems that involve pictorial, oral, and written patterns using a linear equation</li> <li>✓ verify linear equations by substituting values</li> </ul>
#8,9	6.3	Examples 1, 3	<ul><li>✓ graph linear equations</li><li>✓ solve problems by graphing a linear relation and analysing the graph</li></ul>
#10a), b), d)	6.1	Examples 1, 2	<ul> <li>✓ represent pictorial, oral, and written patterns with linear equations</li> <li>✓ solve problems that involve pictorial, oral, and written patterns using a linear equation</li> </ul>
#10c)	6.3	Example 1	$\checkmark$ graph linear equations

# Answers

### **Chapter 6 Practice Test**



6. a)	Term, <i>n</i>	Value, v
	1	-2
	2	6
	3	-10
	4	-14
	5	-18

**b)** v = -4n + 2; Example: -14 = -4(4) + 2 **c)** -42

**7.** a) \$32 b) No, because you cannot add part of a topping

# 8. a) Example:

	x	у
	-2	10
	-1	8
6	0	6
	1	4
4-	2	2
2		
_4 _2 0 _2 X		

### b) Example:

<u>у</u> А	x	у
<	-2	-10
	-1	-8
	0	-6
-4-	1	-4
-6-	2	-2
-10-		

c) Example:

<u>у М</u>	x	у
8-	-2	6
	-1	6
	0	6
4-	1	6
2-	2	6
_4 _2 0 2 X		

**9.** Look for at least one similarity and one difference. Examples: Similarities:

• For graphs a) and c), the value of y when x = 0 is the same.

Differences:

• The direction and slope of the lines are different for each graph.

# Answers

### **Chapter 6 Practice Test**

10. a)	Trail Number, n	Distance, <i>d</i> (km)
	1	8
	2	10
	3	12
	4	14
	5	16

**b)** d = 2n + 6

c)		d ▲ 20	Tr	ail Di	stanc	e
		16-			•	
	e (km	12-				
	istanc	8-	•			
		4-				
		0			6	'n
			2	Trail Nu	umber	

**d)** 18 km

Assessment	Supporting Learning	
Assessment as Learning		
<b>Chapter 6 Self-Assessment</b> Have students review their earlier responses in the What I Need to Work On section of their 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 <i>of</i> Learning		
Chapter 6 Test After students complete the practice test, you may wish to use BLM 6–12 Chapter 6 Test as a summative assessment.	<ul> <li>Consider allowing students to use their Foldable.</li> <li>Since the Wrap It Up! and Challenges provide additional reinforcement of chapter content, you may wish to have students complete these activities before doing the Chapter 6 Practice Test and BLM 6–12 Chapter 6 Test.</li> <li>Consider using the Challenges to assess the knowledge and skills of students who have difficulty with tests.</li> </ul>	