UBM03BLM/AK_61378 1/31/03	2:49 PM Page 13 (Black plate)	DIGITA
NAME		DATE
Module 3	Solving Linear Equations of One Variable	independent
Lesson 2	Solving Equations by Inspection	practice
		- Andrews
<u> </u>		

Solve each equation by inspection and write the solution in proper notation. Check your solution.

<b>1.</b> $x + 8 = 10$	<b>2.</b> <i>y</i> + 4 = 9
<b>3.</b> 7 + <i>m</i> = 15	<b>4.</b> 9 + <i>n</i> = 18
<b>5.</b> c - 3 = 7	<b>6.</b> <i>b</i> - 2 = 14
<b>7.</b> 15 - <i>r</i> = 6	<b>8.</b> 12 - s = 5
<b>9.</b> <i>a</i> + 5 = 5	<b>10.</b> <i>f</i> + 1 = 1
<b>11.</b> <i>P</i> - 6 = 0	<b>12.</b> $V - 0 = 0$
<b>13</b> . $3w = 27$	<b>14.</b> 5 <i>z</i> = -25
<b>15.</b> -11 <i>z</i> = 0	_ <b>16.</b> 12s = 36
<b>17.</b> <i>P</i> ÷ 3 = 6	_ 18. D ÷ 2 = −8
<b>19.</b> 14 ÷ G = 2	<b>20.</b> 22 ÷ <i>V</i> = 11
<b>21.</b> $\frac{K}{9} = 0$	<b>22.</b> $-\frac{M}{5} = 0$
<b>23.</b> $\frac{12}{n} = 3$	<b>24.</b> $\frac{35}{x} = -7$
and the second	^

# Journal

- 1. Explain why the use of variables helps in solving equations by inspection.
- **2.** Explain what it means to substitute for a variable. Use an example in your explanation.
- 3. When solving equations, is solving by inspection always the best alternative?
- **4.** Explain why checking is a valuable tool in solving equations.
- 5. Describe how to use mental math to solve equations.

E.

### DIGITAL

# **Cumulative Review**

Use the order of operations to simplify.

<b>1.</b> 5 – 12 ÷ (–4)	<b>2.</b> 2 + 3(2 - 7)
<b>3.</b> 6 <sup>2</sup> + 7 <sup>2</sup>	<b>4.</b> -4 <sup>2</sup> + (-3) <sup>2</sup>
<b>5.</b> $\sqrt[3]{-8} + 5$	<b>6.</b> − 7  + √49 ÷ 7

#### Evaluate 2L + 2W for the following values.

<b>7.</b> L = 16: W = 25	<b>8.</b> $I = 12$ ; $W = 43$
	•••••••••••••••••••••••••••••••••••••••

#### Evaluate $b^2 - 4ac$ for the following values.

<b>9.</b> <i>a</i> = 2; <i>b</i> = -3; <i>c</i> = 5	<b>10.</b> <i>a</i> = 1; <i>b</i> = -4; <i>c</i> = 4

© 2003 BestQuest

Module 3 Lesson 2