UBM06BLM/AK_6	1378 2/5/03	6:10 PM Page 179 (Black plate	ф <u> </u>	DIGITAL
	NAME			DATE
	Module 6	Solving Absolute Value Equatio	ns and	independent
	Lesson 1	Solving Basic Absolute Value Equations		practice
	Solve the following absolute value equations.			
	<b>1.</b> $ x  = 7$		<b>2.</b> $ \mathbf{x}  = -4$	
	<b>3.</b>  x + 1  =	2	<b>4.</b>  x + 3  =	= 6
	<b>5.</b>  x + 3  =	12	<b>6.</b>  x + 6  =	= 7
	<b>7.</b>  x + 2  =	7	<b>8.</b>  x + 9  =	= 1
	<b>9.</b>  x + 1  =	3	<b>10.</b>  x + 1  =	= 7
	<b>11.</b>  x + 7  =	4	<b>12.</b>  x + 5  =	= 5
	<b>13.</b>  x - 8  =	4	<b>14</b> .  x - 3  =	= 1
	<b>15.</b> $\left \frac{x}{2}\right  = 3$ _		<b>16.</b> $\left \frac{x}{4}\right  = 5$	
	<b>17.</b> $\left \frac{x}{3}\right  = 0$		<b>18.</b> $\left \frac{x}{3}\right  = 4$	
	<b>19.</b> $\left \frac{X}{2}\right  = 2$		<b>20.</b> $\left \frac{x}{2}\right  = 6$	
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## Journal

- **1.** When solving for the variable in absolute value equations, why is there often more than one solution?
- **2.** How do absolute value problems and the symbol  $\pm$  translate into disjunction statements? Give examples.
- **3.** George says that the solution to the inequality |x 8| = 4 is x = 12. Sally says that the solution is x = 12 or -4. Who is correct and why?
- **4.** How many numbers are in the solution set of the equation |x + 3| = 6?
- **5.** Can you think of situations where there would be only one number in the solution set to solve an absolute value equation?
- **6.** Explain how to solve  $\left|\frac{x}{4}\right| = 5$ .

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Module 6 Lesson 1

## DIGITAL

## **Cumulative Review**

Solve by inspection.





Module 6 Lesson 1

Independent Practice