

LESSON
6.5**Practice B***For use with pages 390–395***Solve the equation.**

1. $|x| = 9$

2. $|x| = 2.25$

3. $|x| = \frac{3}{2}$

4. $|x - 6| = 14$

5. $|x + 1| = 8$

6. $|2x - 3| = 15$

7. $|4x + 1| = 15$

8. $|7x + 2| = 23$

9. $|5 - 2x| = 9$

10. $3|2x - 2| = 18$

11. $4|5x - 1| = 36$

12. $2|6x + 5| - 1 = 25$

Solve the equation, if possible.

13. $|x + 3| - 4 = -1$

14. $|x - 8| - 9 = -5$

15. $|x + 3| + 2.5 = 3$

16. $-6|10 - 2x| = 24$

17. $-3|4x + 3| = -9$

18. $-4|5 + 2x| = -16$

19. $-\frac{1}{3}|1 - 8x| = 2$

20. $|3x - 8| + 0.25 = 0.75$

21. $|6x + 5| - 1.3 = -1.9$

LESSON
6.5**Practice B** *continued*
For use with pages 390–395

Find the values of x that satisfy the definition of absolute value for the given value and the given absolute deviation.

- 22.** Given value: 3; absolute deviation: 5 **23.** Given value: 1; absolute deviation: 7
- 24.** Given value: -4 ; absolute deviation: 2 **25.** Given value: -2.5 ; absolute deviation: 8
- 26. Food Scale** Bakers will typically weigh out flour for recipes rather than use a measuring cup because weighing is a more accurate measure. A baker is using a scale that has an absolute error of 0.05 gram.
- Find the minimum and maximum possible weights if the scale is used to measure out 225 grams of flour.
 - Find the minimum and maximum possible weights if the scale is used to measure out 300 grams of flour.
 - Find the minimum and maximum possible weights if the scale is used to measure out 420 grams of flour.
- 27. Toothpaste Prices** The average price of the brand of toothpaste that you buy is \$2.49 for an 8.2-ounce tube. Depending on where you shop, the prices vary by as much as \$.15.
- Write an absolute value equation that represents the minimum and maximum prices of the toothpaste.
 - Find the minimum and maximum prices of the toothpaste.
 - You have a coupon for \$.50 off two tubes of toothpaste. If you go to the store that has the minimum price for the toothpaste, how much will you pay for two tubes?