

## Practice

**Solving Absolute Value Equations**

Solve each equation.

1.  $|n - 4| = 13$

2.  $7|x + 3| = 42$

3.  $|2y - 3| = 29$

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

5.  $|\frac{2}{3}u - 6| = 42$

6.  $|5x - 4| = -6$

7.  $-3|4x - 9| = 24$

8.  $-6|5 - 2y| = -9$

9.  $|8 + p| = 2p - 3$

10.  $5|4w - 1| = 5w + 40$

11.  $4|2y - 7| + 5 = 9$

12.  $-2|7 - 3y| - 6 = -14$

**List possibilities to answer each problem.**

13. In how many ways can a clerk give a customer 25¢ in change?
14. In how many ways can you select three different numbers from the set {1, 2, 3, 4, 5, 6, 7, 8} so that the numbers could represent the measures of the sides of a triangle? Remember that the sum of the measures of any two sides of a triangle must be greater than the measure of the other side.