## 2.2 Simplifying Like Terms

**1.** What is meant by *like terms*?

**2.** Can the following expressions be simplified? Explain why or why not.

**a.** $3x + x$                  **b.** $2a + 7$                  **c.** $5 + 2(x - 8)$

Simplify the following expressions:

**3.** $2a + 4a + 7$                              **9.** $4x - 13x + 7$

**4.** $-3c + 10c - 9$                         **10.** $8(y + 2) - y + 4$

**5.** $13m + 4m^2 - 22m$                     **11.** $c^2 + c^2 + 2c$

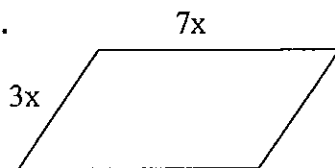**6.** $5 + r + 2s + 13r$                        **12.** $7y^2 - 15y^2 + 4$

**7.** $-11d^2 + 8d - 19d + 12$                **13.** $3(a + b) + -3(b + a)$

Write an expression for the perimeter. Find the perimeter when x is 1,2,3,and 4 (make a chart).

**14.**        7x

3x

**15.**        2x

x