**SKILLS** Objective B

In 1–8, write the expression as a polynomial in standard form.

1. \((5c)(9c) + (2c)(8c^2)\)

2. \(13(9d - 5) - d(8d - 2)\)

3. \(6(e^2 - 2e + 8) + (7e^2)\)

4. \(3(x^3 - 2x^2 + x) - x(x^2 + 7)\)

5. \(g^2(8g^2 - 10g + 2) + g(g^4 - 16g^2)\)

6. \(h^2(h + 7) - h^2(h^2 - h - 4)\)

7. \(3j^3(2j + 1) + 4j^2(j^2 - 2j + 6)\)

8. \(\frac{1}{2}k^2(8k + 4) - \frac{5}{2}k(8k - 6)\)

In 9 and 10, simplify.

9. \(m(n + p) - m(2n - 3p)\)

10. \((r^2 + 2rs + s^2) + 3(2r^2 - 4rs + s^2)\)

In 11 and 12, find the missing polynomial in the given situation.

11. \(5t^2(\text{__________}) = 15t^4 - 10t^2\)

12. \(\frac{3}{4}v^3(\text{__________}) = 6v^5 - 9v^4 + 3v^3\)

**REPRESENTATIONS** Objective I

In 13 and 14, a. find the product, and b. draw a rectangle to represent the product.

13. \(4a(a + 6)\)

   a. \(\text{__________} \quad 13. \text{b.} \quad 14. \text{b.}\)

14. \(6b(b + 3)\)

   a. \(\text{__________}\)
In 15–17, a large rectangle is shown.

a. Express its area as the sum of smaller areas.

b. Express its area as length \( \cdot \) width.

c. What equality is shown?

15. a. ____________________________

b. ____________________________

c. ____________________________

16. a. ____________________________

b. ____________________________

c. ____________________________

17. a. ____________________________

b. ____________________________

c. ____________________________