

Name \_\_\_\_\_

**11-3B Lesson Master****Questions on SPUR Objectives**

See pages 708–711 for objectives.

**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.  $g^2(8g^3 - 10g + 2) + g(g^4 - 16g^2)$

\_\_\_\_\_

6.  $h^3(h + 7) - h^2(h^2 - h - 4)$

\_\_\_\_\_

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. \_\_\_\_\_

13. b.

14. b.

14.  $6b(b + 3)$

a. \_\_\_\_\_

Name \_\_\_\_\_

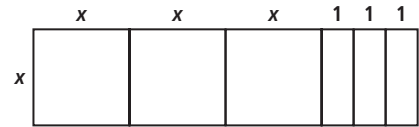
**11-3B**

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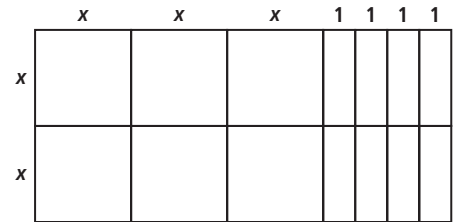
In 15–17, a large rectangle is shown.

- 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. \_\_\_\_\_

