

Name _____

4-7B Lesson Master**Questions on SPUR Objectives**

See pages 245–249 for objectives.

SKILLS Objective C

In 1-11, solve for the stated variable.

1. $x = \frac{1}{4}y + 2$ for y

2. $6x + 8y = 24$ for y

3. $-25x + 5y = 50$ for y

4. $V = \frac{1}{3}bh$ for h

5. $E = ku$ for u

6. $5x + 3y = 3x - y$ for y

7. $\lambda = \frac{h}{p}$ for p

8. $C = 2x\pi$ for x

9. $R = \frac{q}{5} + \frac{q}{6}$ for q

10. $\alpha = \frac{k}{\rho c}$ for c

11. $A = Bc - 7D$ for D

12. $A = P(1 + rt)$ for t

13. $7x + zy = 10$ for y

14. $x = 2(y + 3) + 2(y - 4)$ for y

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15. a. Given the equation $y = 2x + 3$, find one solution of the equation by finding the y value that corresponds to $x = 1$. _____
- b. Solve the equation for x . _____
- c. Does the solution satisfy the equation in Part b? _____
16. a. Solve $A = l \times w$ for w . _____
- b. Find w if $A = 10$ and $l = 2$. _____
17. Two students are asked to solve the equation $y = 3x + 2$ for x . Student A obtains $x = \frac{y-2}{3}$. Student B obtains $x = \frac{y}{3} - \frac{2}{3}$. Which student is correct? _____
18. a. Solve the following equations for y .
 $y = 0.2 - \frac{x}{4}$, $5x + 20y = 4$, and $x = \frac{4 - 20y}{5}$. _____
- b. Graph each equation on a calculator. _____
- c. Which of these equations appear to be equivalent? _____