Name

10-3A Lesson Master

Questions on SPUR Objectives
See pages 650–653 for objectives.

SKILLS Objective A

In 1–4, a system is given. Solve each system by substitution.

1. $\begin{cases} x = 3y + 5 \\ 2x - 4y = 12 \end{cases}$

2. $\begin{cases} n = -2m + 1 \\ 6m + 4n = 12 \end{cases}$

3. $\begin{cases} 4a - 5b = 6 \\ a = 7b - 10 \end{cases}$

4. $\begin{cases} c = -3d + 4 \\ 2c + 4d = 4 \end{cases}$

5. Kendra is solving $\begin{cases} 3x - 6y = -24 \\ 2x + 8y = 56 \end{cases}$. Fill in the missing portions of her work to find solutions to the system.

$3x = -24 + 6y$

$x = \frac{-24 + 6y}{3}$

$x =$ _____

$2($_____$) + 8y = 56$

_____ $+ 8y = 56$

$-16 + 12y - 56 = 0$

$12y =$ _____

$y =$ _____ and

$x =$ _____.

USES Objective G

6. Keith purchased 80 jerseys for his football team. The total cost for the jerseys was \$3,824. Small jerseys cost \$38 each and large jerseys cost \$52 each.

   a. Describe the situation with a system of equations. _____

   b. How many jerseys of each size did Keith purchase for his team? _____

7. One group of students ordered 3 hamburgers and 5 veggie burgers for a total cost of \$48.30. Another group ordered 4 hamburgers and 5 veggie burgers for \$51.95. How much does a veggie burger cost?

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