

Name \_\_\_\_\_

**10-5A Lesson Master****Questions on SPUR Objectives**

See pages 650–653 for objectives.

**SKILLS** Objective B

1. Consider the system 
$$\begin{cases} 4x - 7y = 42 \\ 2x + 3y = 8 \end{cases}$$

a. What operation was done to the system to get 
$$\begin{cases} 4x - 7y = 42 \\ -4x - 6y = -16 \end{cases}$$
? \_\_\_\_\_

b. Solve the system. \_\_\_\_\_

2. Consider the system 
$$\begin{cases} 6a + 4b = 2 \\ 5a - 12b = 40 \end{cases}$$

a. If the first equation in the system is multiplied by 3, then adding the equations will eliminate what variable? \_\_\_\_\_

b. Solve the system. \_\_\_\_\_

In 3–5, solve the system.

3. 
$$\begin{cases} -x + 5y = 14 \\ 4x - 3y = 12 \end{cases}$$

4. 
$$\begin{cases} 6r + 11s = -18 \\ 2r - 5s = 20 \end{cases}$$

5. 
$$\begin{cases} 4m + 3n = -2 \\ 5m - 2n = 55 \end{cases}$$

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**USES** Objective G

6. At a local farmer's market, Cole purchased 7 apples and 12 peaches for \$9.66. Keith purchased 10 apples and 8 peaches for \$8.68. What is the cost of an apple and what is the cost of a peach at the market if all apples are the same price and all peaches are the same price?
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7. This year, North and Central High schools combined the best members from each school's choir to sing in the all-city choir made up of 40 singers. The altos make up 32.5% of the singers in the all-city choir. Forty percent of North's singers are altos in the all-city choir and 20% of Central's singers are altos in the choir. How many singers from North High School are in the all-city choir? How many singers from Central High School are in the all-city choir?
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