

Name \_\_\_\_\_

**10-4A Lesson Master****Questions on SPUR Objectives**

See pages 650–653 for objectives.

**SKILLS** Objective B

In 1–4, a system is given. Solve the system using addition.

1. 
$$\begin{cases} 4x - 3y = -50 \\ 7x + 3y = -5 \end{cases}$$

2. 
$$\begin{cases} 2m - n = -2 \\ -2m + 4n = 23 \end{cases}$$

3. 
$$\begin{cases} -8a + b = -4 \\ 2a + b = 2 \end{cases}$$

4. 
$$\begin{cases} -2x + 5y = 34 \\ 2x - 7y = -50 \end{cases}$$

**USES** Objective G

5. A pilot flew a small plane 525 miles from Houston, Texas, to Pensacola, Florida, in 3 hours against the wind. The pilot returned to Houston in 2 hours and 30 minutes with the wind at the plane's tail. How fast was the plane flying without the wind? What was the speed of the wind?
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6. At a ski resort one family pays \$1,045 for 3 nights of lodging and 8 ski lift passes. Another family pays \$1,305 for 3 nights of lodging and 12 ski lift passes. What is the cost of one night's lodging and what is the cost of a ski lift pass?
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7. Holly purchased 2 pairs of jeans and 5 shirts for \$243. Stephanie purchased 2 pairs of the same jeans but only 2 of the same shirts for \$162. What is the price of a pair of jeans at the store? What is the price of a shirt at the store?
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