

Name \_\_\_\_\_

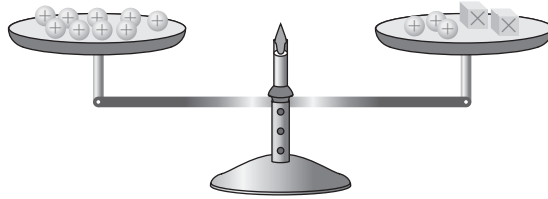
# 3-3A Lesson Master

Questions on SPUR Objectives

See pages 178–179 for objectives.

## PROPERTIES Objective C

1. a. What equation is modeled by the diagram below? \_\_\_\_\_



- b. What two steps can be done on each side of the scale to find out how much a single box weighs? \_\_\_\_\_

- c. If each round object weighs 1 oz, how much does a single box weigh? \_\_\_\_\_

In 2 and 3, tell what was done to each side of the first equation to arrive at the second equation.

$$\begin{aligned} 2. \quad -41 + 5x &= 99 \\ 5x &= 140 \end{aligned}$$

$$\begin{aligned} 3. \quad 1.6 &= 0.02a \\ 80 &= a \end{aligned}$$

4. Fill in the blanks to tell what operation should be performed on both sides to solve  $-7u + 61 = 110$ .

First \_\_\_\_\_ both sides. Then \_\_\_\_\_ both sides.

5. Write the commands you would enter on a CAS to find the solution to  $2.1 = 2.05k + 8.75$ . \_\_\_\_\_

6. In solving  $-6y + 72 = -114$ , Linda instructed her CAS to divide both sides by  $-6$ .

- a. What result did she get? \_\_\_\_\_

- b. Is this a reasonable first step to solve the equation? If so, use it to solve the equation. If not, explain why.

\_\_\_\_\_  
\_\_\_\_\_

7. Tell what was done to each step to solve the equation  $72 - 18t = 864$ .

$$72 - 18t = 864$$

$$-18t = 792$$

$$t = -44$$

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