

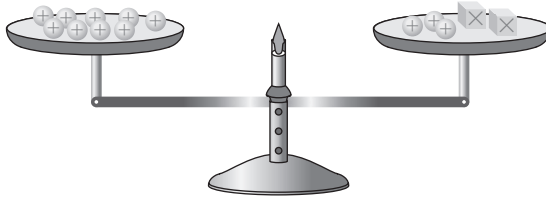
Name \_\_\_\_\_

**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.

$$2. \quad -41 + 5x = 99$$

$$5x = 140$$

$$3. \quad 1.6 = 0.02a$$

$$80 = a$$

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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