

Name _____

3-2B Lesson Master

Questions on SPUR Objectives

See Student Edition pages 215–219 for objectives.

PROPERTIES Objective E

1. Determine whether each expression is a linear combination.

- | | | |
|--------------------------|--------------------------|----------------------------|
| a. $5x + 4y$ _____ | b. $5.3k - 9.2j$ _____ | c. $7x^2 - x$ _____ |
| d. $8r + 5s - 3t$ _____ | e. $9x + 15z$ _____ | f. $2x - 5y$ _____ |
| g. $3x - 2xy - 16$ _____ | h. $a - c(3 - c)$ _____ | i. $5x + 3\sqrt{4}y$ _____ |
| j. $5.3k - 0.2j$ _____ | k. $7x - \sqrt{x}$ _____ | l. $8r + 5s - 3t$ _____ |

In 2–5, a. write a linear combination representing the total, and
 b. determine whether the situation described is *discrete* or *continuous*.

2. In football, touchdowns are worth 6 points, extra points are worth 1 point, and field goals are worth 3 points. Suppose the Manatee Cougars score T touchdowns, P extra points, and F field goals. Write an expression that gives the total number of points scored.

- a. _____ b. _____

3. Ivan bought P pounds of peaches at 79¢ a pound and G pounds of grapes at \$1.99 a pound. Write an expression that gives the amount Ivan paid for the peaches and the grapes.

- a. _____ b. _____

4. A chemist mixed A ounces of a 30% chlorine solution with B ounces of 40% chlorine solution. The final mixture contained 18 ounces of chlorine. Write an expression to model this situation.

- a. _____ b. _____

5. Alex bought P flats of petunias at \$12.99 each and B flats of begonias at \$8.99 each. Write an expression that gives the amount Alex spent.

- a. _____ b. _____

6. Describe a situation leading to the equation $0.4x + 0.6y = 24$.

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USES Objective H

In 7 and 8, consider the following information. On a quiz show, 20 points are given for correct answers to regular questions and 50 points are given for correct answers to bonus questions.

- 7. If a contestant answers 5 regular questions correctly and 7 bonus questions correctly, how many points does she have? _____
- 8. Suppose a contestant earned 650 points.
 - a. If she answered 13 bonus questions correctly, how many regular questions did she answer correctly? _____
 - b. If she answered 25 regular questions correctly, how many bonus questions did she answer correctly? _____
- 9. Helene bought L 74-minute recordable CDs at \$0.58 each and M 80-minute recordable CDs at \$0.95 each. Suppose she spent \$12.40 and bought ten 80-minute CDs. How many 74-minute CDs did she buy? _____
- 10. At a produce market, Granny Smith apples are \$0.75 a pound and Red Delicious apples are \$0.95 a pound. Jim has \$9 and buys 3 pounds of Granny Smith apples. Round answers to the nearest pound.
 - a. How many pounds of Red Delicious apples can he buy? _____
 - b. If the price of each kind of apple increases \$0.11 per pound, how many pounds of Red Delicious apples can he buy? _____

REVIEW Lesson 2-4, Objective C

In 11-18, find the slope of the line containing the given points.

- 11. (3, 4), (6, -2) _____
- 12. (7, -4), (-1, 0) _____
- 13. (0, 0), (2, 3) _____
- 14. (4, 0), (1, 4) _____
- 15. (2, -4.5), (1.5, -4) _____
- 16. (-5, 3), (-5, 2) _____
- 17. (-1, 8), (6, 8) _____
- 18. (50, 125), (100, 375) _____