

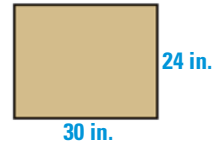
Solve the linear system using elimination. (p. 451)

55. $4x + y = 8$
 $5x - 2y = -3$

56. $3x - 5y = 5$
 $x - 5y = -4$

57. $12x + 7y = 3$
 $8x + 5y = 1$

58. **ART PROJECT** You are making a tile mosaic on the rectangular tabletop shown. A bag of porcelain tiles costs \$3.95 and covers 36 square inches. How much will it cost to buy enough tiles to cover the tabletop? (p. 28)



59. **FOOD** The table shows the changes in the price for a dozen grade A, large eggs over 4 years. Find the average yearly change to the nearest cent in the price for a dozen grade A, large eggs during the period 1999–2002. (p. 103)

Year	1999	2000	2001	2002
Change in price for a dozen grade A, large eggs (dollars)	-0.17	0.04	-0.03	0.25

60. **HONEY PRODUCTION** Honeybees visit about 2,000,000 flowers to make 16 ounces of honey. About how many flowers do honeybees visit to make 6 ounces of honey? (p. 168)

61. **MUSIC** The table shows the price p (in dollars) for various lengths of speaker cable. (p. 253)

Length, l (feet)	3	5	12	15
Price, p (dollars)	7.50	12.50	30.00	37.50

- Explain why p varies directly with l .
- Write a direct variation equation that relates l and p .

62. **CURRENCY** The table shows the exchange rate between the currency of Bolivia (bolivianos) and U.S. dollars from 1998 to 2003. (p. 335)

Year	1998	1999	2000	2001	2002	2003
Bolivianos per U.S. dollar	5.51	5.81	6.18	6.61	7.17	7.66

- Find an equation that models the bolivianos per U.S. dollar as a function of the number of years since 1998.
- If the trend continues, predict the number of bolivianos per U.S. dollar in 2010.

63. **BATTERIES** A manufacturer of nickel-cadmium batteries recommends storing the batteries at temperatures ranging from -20°C to 45°C . Use an inequality to describe the temperatures (in degrees Fahrenheit) at which the batteries can be stored. (p. 380)