Solve each equation. Check your solution.

44. $\dfrac{x}{9} = 10$ **45.** $\dfrac{b}{7} = -11$ **46.** $\dfrac{3}{4} = \dfrac{c}{24}$

47. $\dfrac{2}{3} = \dfrac{1}{8}y$ **48.** $\dfrac{2}{3}n = 14$ **49.** $\dfrac{3}{5}g = -6$

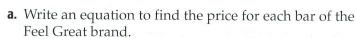**50.** $4\dfrac{1}{5} = 3p$ **51.** $-5 = 3\dfrac{1}{2}x$ **52.** $6 = -\dfrac{1}{2}n$
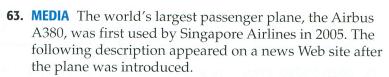
53. $-\dfrac{2}{5} = -\dfrac{z}{45}$ **54.** $-\dfrac{g}{24} = \dfrac{5}{12}$ **55.** $-\dfrac{v}{5} = -45$

Write an equation for each sentence. Then solve the equation.

56. Six times a number is 132.

57. Two thirds equals negative eight times a number.

58. Five elevenths times a number is 55.

59. Four fifths is equal to ten sixteenths of a number.

60. Three and two thirds times a number equals two ninths.

61 Four and four fifths times a number is one and one fifth.

62. **SHOPPING** Adelina is comparing prices for two brands of health and energy bars at the local grocery store. She wants to get the best price for each bar.

   a. Write an equation to find the price for each bar of the Feel Great brand.

   b. Write an equation to find the price of each bar for the Super Power brand.

   c. Which bar should Adelina buy? Explain.

63. **MEDIA** The world's largest passenger plane, the Airbus A380, was first used by Singapore Airlines in 2005. The following description appeared on a news Web site after the plane was introduced.

   "That airline will see the A380 transporting some 555 passengers, 139 more than a similarly set-up 747."

   How many passengers will a similarly set-up 747 transport?

64. **FUEL** In 2004, approximately 5 million cars and trucks were classified as flex-fuel, which means they could run on gasoline or ethanol. In 2006, that number increased to 7.5 million. How many more cars and trucks were flex-fuel in 2006?

65. **CHEERLEADING** At a certain cheerleading competition, the maximum time per team, including the set up, is 3 minutes. The Ridgeview High School squad's performance time is 2 minutes and 34 seconds. How much time does the squad have left for their set up?

66. **COMIC BOOKS** An X-Men #1 comic book in mint condition recently sold for $45,000. An Action Comics #63 (Mile High), also in mint condition, sold for $15,000. How much more did the X-Men comic book sell for than the Action Comics book?

67. **MOVIES** A certain movie made $1.6 million in ticket sales. Its sequel made $0.8 million in ticket sales. How much more did the first movie make than the sequel?

68. **CAMERAS** An electronics store sells a certain digital camera for $126. This is $\dfrac{2}{3}$ of the price that a photography store charges. What is the cost of the camera at the photography store?