Solve. Show your work.

53. The number of payments varies inversely with the amount of equal payments. If the number of payments is 36 when the amount of each payment is $240, how much will each payment be if 48 payments are made?

54. The employees at Harry's House of Hamburgers have the following weekly salaries: $210, $250, $250, $350, $375, $400, $800, $1000. Which measure of central tendency would you use if you wanted to describe the typical salary? Why?
(mean, median, mode)

55. The relationship between a temperature in degrees Celsius (C) and the temperature in degrees Fahrenheit (F) is given by the formula $F = 1.8C + 32$. Overnight the temperature fell 12°F. The morning temperature was 15°C. What was the temperature in degrees Fahrenheit before it fell?

56. A 20-foot ladder just reaches the top of a building. The ladder's base is 12 feet from the building. How tall is the building?

57. The Eiffel Tower is 984 feet tall. Looking through binoculars from the top, at a 60° angle of depression, John sees his friend. How far away from the base of the tower is John's friend. Round to the nearest foot. Use a trigonometric ratio and a calculator.

58. An ice cream shop offers customers 10 flavors of ice cream, 2 types of cones, and 5 toppings. Find the number of possible ice cream cone choices when a customer selects 1 cone, 1 scoop of ice cream, and 1 topping.

59. Mark bought a shirt on sale for 25% off. Originally the shirt was $50.00. Mark had a coupon for an additional 20% off. How much did Mark pay for the shirt?

60. A rectangular cracker has an area of 22 cm^2. Using 3.14 for π, what is the diameter of a circular cracker with the same area? Round to the nearest tenth.

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