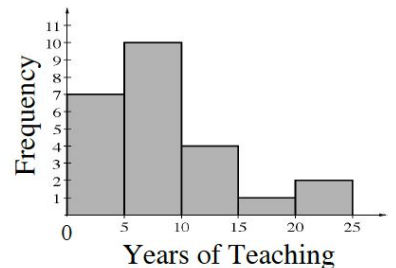Name:_____

Date:_____   Per:_____

Lesson 7.1.4 Homework

7-45. Mr. Anderson's doctor has advised him to go on a diet. He must reduce his caloric intake by 15%. He currently eats 2800 calories per day. Calculate his new daily caloric intake rate in two different ways, using two different multipliers.

7-46. Last month, a dwarf lemon tree grew half as much as a semi-dwarf lemon tree. A full-size lemon tree grew three times as much as the semi-dwarf lemon. Together, the three trees grew 27 inches. Write and solve an equation to determine how much each tree grew. Make sure you define your variable.

7-47. Enrique is saving money to buy a graphing calculator. So far he has saved $30. His math teacher told him he has saved 40% of what he will need. How much does the calculator cost?

7-48. A principal made the histogram at right to analyze how many years teachers had been teaching at her school.
  a.   How many teachers work at her school?

Years of Teaching

  b.   If the principal randomly chose one teacher to represent the school at a conference, what is the probability that the teacher would have been teaching at the school for 10 or more years? Write the probability in two different ways.

  c.   What is the probability that a teacher on the staff has been there for fewer than 5 years?

7-49. Ruby Lu is rolling a random number cube. The cube has six sides, and each one is labeled with a different number 1 through 6.
  a.   What is the probability that he will roll a 5 or a 3 on one roll?

  b.   What is the probability that he will roll a 5 and then a 3 in two rolls?

  c.   What is the probability that he will roll a sum of 12 in two rolls?