**Activity # 7**

**GOALS/Objectives**

When you have completed this activity, you will be able to:

**• Organize raw data into a *frequency distribution***

**• Produce a *histogram*, a *frequency polygon*, and a *cumulative frequency polygon* from quantitative data**

Introduction: Rob Whitner, owner of Whitner Pontiac, is interested in collecting information on the selling prices of vehicles sold at his dealership. Mr. Pontiac has appointed you to find out what is the typical selling price? What is the highest selling price? What is the lowest selling price? Around what value do the selling prices tend to cluster? To answer these questions, you need to collect data. According to sales records, Whitner Pontiac sold 80 vehicles last month. The price in dollars paid by the customer for each vehicle is shown in Table 1-1. Summarize the selling prices of the vehicles sold last month (May 2009). Around what value do the selling prices tend to cluster? Also represent the raw data using histogram, frequency polygon and an ogive.

**Resources:**

**TABLE 1-1: Selling Prices ($) at Whitner Pontiac Last Month**

31,373 26,879 31,710 36,442 37,657 21,969 23,132 39,552 42,923 25,544 31,060 50,596 25,026 26,252 32,778 32, 839 33,277 39,532 19,320 19,920 25,984 34,266 38,552 33,160 37,642 26,009 26,186 22,109 26,418 34,306 25,699 31,812 36,364 27,558 26,492 31,978 35,085 36,438 45,086 27,169 29,231 32,420 35,110 19,702 23,505 50,719 22,175 23,050 26,728 28,400 28,831 25,149 30,518 25,819 27,154 27,661 30,561 35,859 38,339 40,157 45,417 24,470 28,859 29,836 33,219 34,571 39,018 27,168 31,744 32,678 42,588 29,940 22,932 27,439 35,784 26,865 28,576 28,704 32,795 31,103

**Duplicate of TABLE 1-1**

31,373 26,879 31,710 36,442 37,657 21,969 23,132 39,552 42,923 25,544 31,060 50,596 25,026 26,252 32,778 32, 839 33,277 39,532 19,320 19,920 25,984 34,266 38,552 33,160 37,642 26,009 26,186 22,109 26,418 34,306 25,699 31,812 36,364 27,558 26,492 31,978 35,085 36,438 45,086 27,169 29,231 32,420 35,110 19,702 23,505 50,719 22,175 23,050 26,728 28,400 28,831 25,149 30,518 25,819 27,154 27,661 30,561 35,859 38,339 40,157 45,417 24,470 28,859 29,836 33,219 34,571 39,018 27,168 31,744 32,678 42,588 29,940 22,932 27,439 35,784 26,865 28,576 28,704 32,795 31,103