Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# WS 4-1

# Coordinates and Scatter Plots

**I. Scatter Plots**

1. Plot and label the points on the coordinate plane:

|  |  |
| --- | --- |
| (1, 0)(3, 4)(-2, 8)(-9, -7)(-3, -5)(6, -6)(-5, 3)(2, -9)(1, 8) | http://etc.usf.edu/clipart/49300/49307/49307_graph_1010i_lg.gif |

2. You are the manager of the school basketball team. You have gathered data about the players’ heights and weights in the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Height (in.) | 72 | 70 | 73 | 73 | 75 |
| Weight (lb.) | 175 | 160 | 180 | 185 | 190 |

a. Make a scatter plot of the data. Put height *h* on the horizontal axis and weight *w* on the vertical axis. Be sure to label your axes!



b. Use the scatter plot to estimate the weight of a player who is 76 inches tall.

**II. Describing Patterns**

2. The amount of money (in millions of dollars) spent in the United States on snowmobiles is shown in the table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Snowmobiles | 322 | 362 | 391 | 515 | 715 | 924 | 970 |

a. Draw a scatter plot on the coordinate plane. Because you want to see how spending changes over time, put time *t* on the horizontal axis and spending *s* on the vertical axis.



b. Describe the pattern of the amount of money spent on snowmobiles.