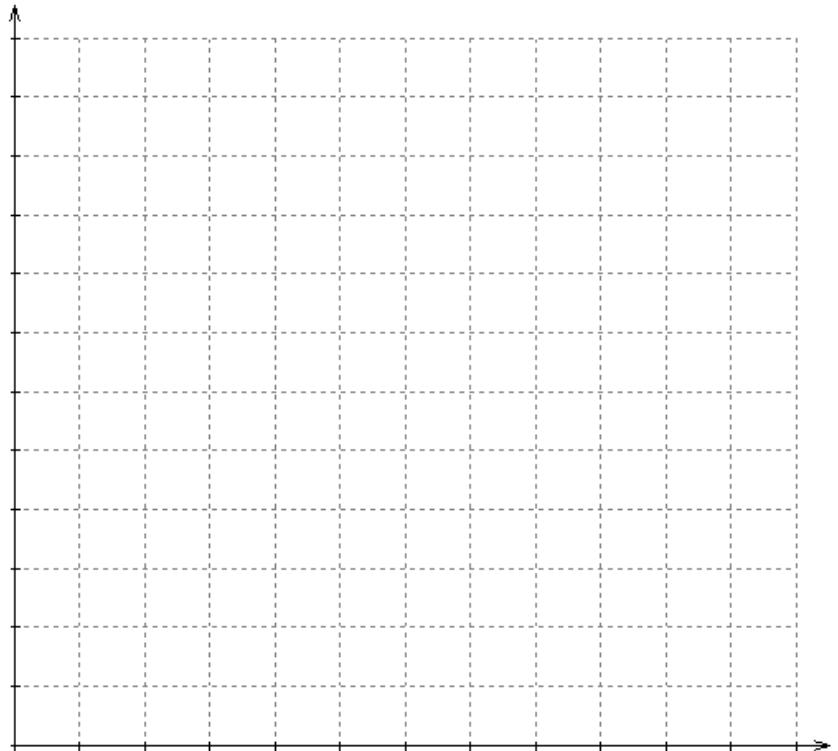## SCATTER PLOT ASSIGNMENT

Janet recorded the arm span and the height of 15 of her friends, as shown in the following table.

Arm Span (cm)	Height (cm)
121	123
140	136
170	168
162	157
164.5	168
156	153
142	140.5
139	136
130.5	165
127	126
168.5	164
145	143
154.5	155
163	165
179	174

1) Create a scatter plot for Janet's data. Be sure to **label each axis** (arm span on the horizontal axis and height on the vertical axis) and **give the graph a title**. Also, we will be investigating an **arm span of 220, so make sure you leave extra space on each axis**!

2) Draw the **line of best fit**.

3) Using the line of best fit, predict the height of a person who has an arm span of 160 cm.

Arm Span: 160 cm   Height: _____

To find this height, you used: **Interpolation   Extrapolation**   (circle one)

4) Using the line of best fit, predict the height of a person who has an arm span of 220 cm.

Arm Span: 220 cm   Height: _____

To find this height, you used: **Interpolation   Extrapolation**   (circle one)

5) If there are any outliers, circle them on the graph.