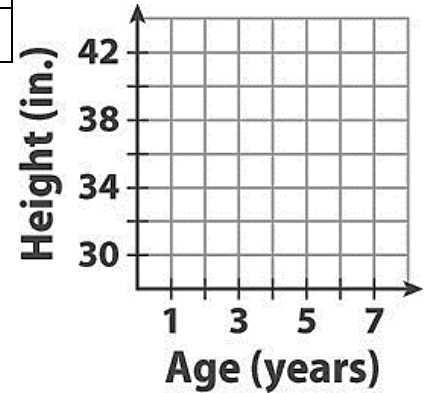


The table below lists the ages and heights of 10 children. Use the data for 1–5.

A, age in years	2	3	3	4	4	4	5	5	5	6
H, height in inches	30	33	34	37	35	38	40	42	43	42

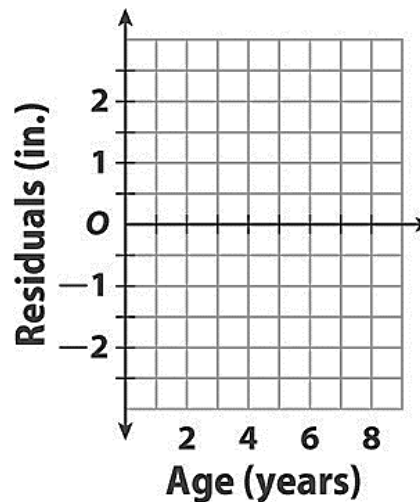


1. Draw a scatter plot.

2. A student fit the line $H = 3.5A + 23$ to the data. Graph the student's line above. Then calculate the student's predicted values and residuals.

A, age in years	2	3	3	4	4	4	5	5	5	6
H, height in inches (actual value)	30	33	34	37	35	38	40	42	43	42
Predicted Values										
Residuals (subtract predicted value from actual value)										

3. Use the graph below to make a residual plot.



4. Use your residual plot to discuss how well the student's line fits the data.

5. Use the student's line to predict the height of a 20-year-old man. Discuss the reasonableness of the result.
