

Lesson 2 Assessment

Exploring Scatter Plots

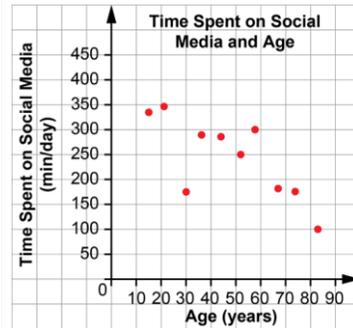
Exploring Scatter Plots

Recognizes when to use a scatterplot to represent data

“If I have two quantitative variables and I want to see if there is a relationship between them, I use a scatter plot. This makes it easier to see any patterns that may exist in the data.”

Draws a scatter plot, correctly identifying which variable to plot on the horizontal axis

Height (cm)	Arm Span (cm)
165	164
166	166
158	160
184	182
177	175
160	161
176	175
158	160



Source: Student collected data

Interprets scatter plots, including recognizing limitations

“In my scatter plot of arm span and height, I can see that as you move right along the x-axis, the points move up. This is a positive relationship and means that as a person’s height increases, so does their arm span. It would be good to collect and add more data since 8 points isn’t very many.”

Poses question about possible relationships between two variables and predicts answer

“I know that when I don’t sleep enough, I’m tired the next day. I wonder if there is a relationship between how a person rates their energy level on a scale of 1 to 10 and the number of hours of sleep they got the night before. I think there will be a positive relationship, the more sleep they got, the higher they will rate their energy level.”

Observations/Documentation