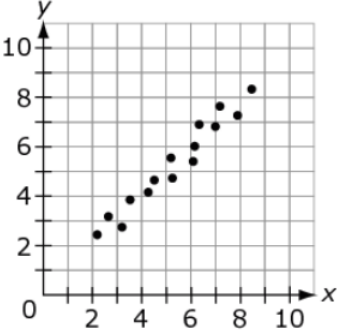


Content Standard	<p>MAFS.8.SP Statistics and Probability</p> <p>MAFS.8.SP.1 Investigate patterns of association in bivariate data.</p> <p>MAFS.8.SP.1.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.</p>	
Assessment Limit	Numbers in items must be rational numbers.	
Calculator	Neutral	
Item Types	GRID Multiple Choice Multiselect	
Context	Allowable	
Sample Item	Item Type	
<p>A scatter plot is shown for bottled water sales and temperature.</p> <div data-bbox="186 850 544 1213" data-label="Figure"> <p>Bottled Water Sales</p> <p>The scatter plot shows a positive linear association between temperature and bottled water sales. The x-axis is labeled 'Temperature' and the y-axis is labeled 'Bottled Water'. There are approximately 15 data points, all of which follow a similar upward-sloping path, indicating a strong positive correlation. There are no outliers present in the data.</p> </div> <p>Select all statements that correctly interpret the graph.</p> <ul style="list-style-type: none"> <input type="checkbox"/> There are no outliers for the data. <input type="checkbox"/> The data show a linear association. <input type="checkbox"/> The data show a positive correlation. <input type="checkbox"/> The data show a negative correlation. <input type="checkbox"/> The data show no relation between bottled water sales and temperature. 	Multiselect	

Sample Item	Item Type
<p data-bbox="191 256 461 285">A scatter plot is shown.</p>  <p data-bbox="191 663 698 693">Which statement is true for the scatter plot?</p> <ul data-bbox="191 722 685 890" style="list-style-type: none"><li data-bbox="191 722 685 751">Ⓐ The data show no association.<li data-bbox="191 764 685 793">Ⓑ The data show a positive correlation.<li data-bbox="191 806 685 835">Ⓒ The data show a negative correlation.<li data-bbox="191 848 685 877">Ⓓ The data show a nonlinear association.	Multiple Choice