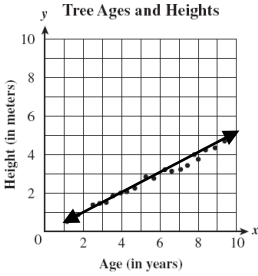
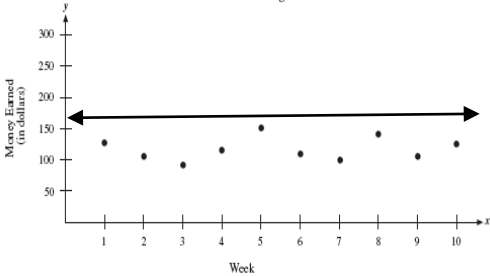
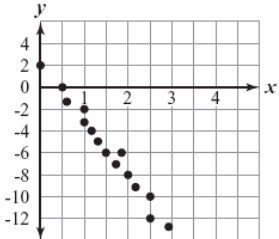


FRAYER MODEL—Strategy for Vocabulary Development

Sample for Data Analysis: Line of Best Fit

TERM	EXAMPLES
<p>Definition:</p> <p>A line drawn on a scatter plot to estimate the relationship between two sets of data</p> <p>Give 3 facts about <u>a line of best fit</u>.</p> <ol style="list-style-type: none"> 1. It is the line that comes the closest to the largest number of dots on the scatter plot of the two sets of data. (It might not actually contain any of the points on the scatter plot.) 2. We can estimate the line of best fit by hand by trying to find the line that hits the most number of points in the scatter plot. We can use the graphing calculator to graph the scatter plot and use the LinReg ($ax+b$) in the STAT menu to find the line of best fit using a mathematical method built in to the graphing calculator. 3. The relationship between the quantities can be positive or negative or there may be no relationship. 	<p>Sketch/give 2 examples that illustrate what <u>a line of best fit</u> is.</p> <div style="text-align: center;">  <p>Tree Ages and Heights</p> </div> <div style="text-align: center;">  <p>Car Wash Earnings</p> </div>
NON-EXAMPLES	EXTENSION
<p>Sketch/give 2 non-examples of <u>a line of best fit</u>.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The line of best fit is not</p> $y = 2 + 5x$ </div> </div>	<p>Give 2 examples of how <u>a line of best fit</u> might be used in the real world.</p> <ol style="list-style-type: none"> 1. In medicine, doctors can use the line of best fit as a prediction tool for other values of the dependent variable with respect to the x variable (like weight v height).

Sketch/give 2 non-examples of

_____.

Give 2 examples of how _____

might be used in the real world.