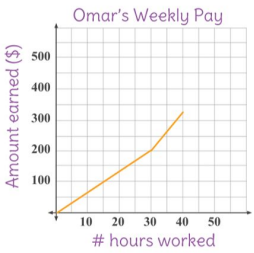


Subject: Math-Quarter 2	Grade: 8	Strand: Algebra and Functions
<b>Standard: 8.AF.4: Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear, has a maximum or minimum value). Sketch a graph that exhibits the qualitative features of a function that has been verbally described.</b>		
<b>4.0</b>	<b>Student demonstrates a deep understanding by consistently extending work beyond Level 3.</b>	<p style="text-align: center;"><b>Sample Task(s)</b></p> <p>Omar gets paid by the hour to mow lawns. Describe his weekly earnings as a function of the number of hours he works.</p> <p>If Omar works over 40 hours, the amount he earns doesn't increase anymore. Extend the graph to represent what happens between 40 and 50 hours.</p> <p>Next summer, Omar's employer wants to offer him a salary instead of hourly pay. Draw the graph of the function that represents a \$300 salary as a function of the number of hours worked. Explain the benefits and drawbacks of this option.</p> 
	<b>3.5</b>	<i>Student has consistently met Level 3 requirements, but occasionally demonstrates the ability to successfully work beyond.</i>
<b>3.0</b>	<p><b>The student demonstrates proficiency on the grade level standard by:</b></p> <ul style="list-style-type: none"> <li>Describe qualitatively the functional relationship between two quantities.</li> <li>Analyzing a graph.</li> <li>Sketch a graph that exhibits the qualitative features of a function from a verbal description.</li> </ul> <p><b>The student is consistently able to apply the grade level concepts and skills above.</b></p>	<p style="text-align: center;"><b>Sample Task(s)</b></p> <p>Jack borrows some money from his dad. Each week he pays his dad back the same amount until the debt is paid in full. Graph the amount of money Jack owes his dad as a function of time.</p>

2.5	<i>Student has demonstrated an understanding of the concepts and skills in Level 2, as well as some success on Level 3 concepts and skills.</i>	
2.0	<b>The student is demonstrating success on the following foundational concepts and skills:</b> <ul style="list-style-type: none"> <li>• Sketch a graph from quantitative data</li> <li>• Demonstrate an understanding of (x) input and (y) output relationships</li> </ul>	<b>Sample Task(s)</b>
		Plot the data from the table:
1.5	<i>Student has independently demonstrated some success on the foundational concepts and skills.</i>	
1.0	<b>The student can demonstrate some success on the foundational concepts and skills but requires support to do so.</b>	
0.0	<b>There is no evidence of success on the foundational concepts and skills, even with support.</b>	