This example was suggested by the audience (you): The relationship between how many hours you work and how much you earn for that work if you are paid $7 per hour.

I will use the following names for the quantities involved:
"h" is the number of hours worked
"E" is the money earned from this work in US dollars

(1) Table: The relationship between "h" and "E" can be presented in a table as follows:

<table>
<thead>
<tr>
<th>&quot;h&quot; (hours worked)</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>...</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;E&quot; (earnings)</td>
<td>0</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>28</td>
<td>35</td>
<td>...</td>
</tr>
</tbody>
</table>

(2) Graph: When we make a graph of this relationship, it will look like this:

It is important for you to notice that this EXPLAINS WHY the graph turns out to be straight! Every time the number of hours worked increases by 1, we move one unit to the right (from where we were) and the increase in earnings for that extra hour is always $7, so the height of the next point is 7 bigger than the height of the previous point!
(one unit right -- 7 units up, one unit right - 7 units up, and so on and so on...)

(3) Formula: Can we express this relationship using some kind of "formula"?

Sure: \[ E = 7 \cdot h \], where "h" is the number of hours worked, and "E" is the money earned from this work in US dollars.

Homework: How do each of the responses to (1), (2), (3) change when you get paid the new minimum wage in Ohio, which is $8.15 per hour? How do the responses change when you work in Seattle, where the minimum wage is $15 per hour?

In particular: Into ONE picture, draw the graphs you get for all three scenarios, the one given above, the Ohio scenario, and the Seattle scenario. The three straight lines you will see do not have the same steepness. Express in your own words, how the steepness of the resulting line is influenced by the hourly wage, so that your little brother can understand... (Do this on a separate sheet of paper. Do this diligently. Use Ruler, label axes, etc.)