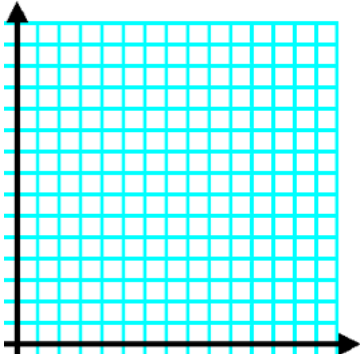
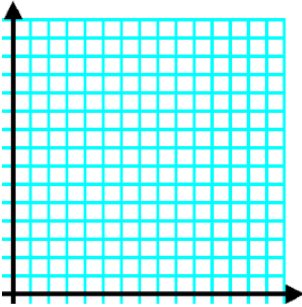


Day 22: Linear Functions and Slope

Situation	Complete Table	Write an Equation	Graph																				
<p>Bailey babysits for the Wilson family. She charges \$5 just to drive there to pay for gas, and then she charges \$9 per hour.</p>	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>20</td><td></td></tr> <tr><td>21.5</td><td></td></tr> <tr><td>x</td><td></td></tr> </tbody> </table>	x	y	0		1		2		3		4		5		20		21.5		x		<p>Define the variables: x: y: Equation:</p>	
x	y																						
0																							
1																							
2																							
3																							
4																							
5																							
20																							
21.5																							
x																							
<p>Make up a situation:</p>	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>20</td><td></td></tr> <tr><td>21.5</td><td></td></tr> <tr><td>x</td><td></td></tr> </tbody> </table>	x	y	0		1		2		3		4		5		20		21.5		x		<p>Define the variables: x: y: Equation: $y = -2x + 14$</p>	
x	y																						
0																							
1																							
2																							
3																							
4																							
5																							
20																							
21.5																							
x																							

SLOPE!

Make a list of all the ways you have learned to identify/calculate slope:

HOW TO CALCULATE SLOPE

Slope is also called _____.

Situation/Pattern			
<p>You decide to go to the pumpkin patch this weekend with your family. Pumpkins cost \$0.99 per lb, and it costs \$3 to enter the pumpkin patch.</p>	Figure 1	Figure 2	Figure 3

Graph	
<p>Example:</p>	<p>Example:</p>

Table																													
<p>Example:</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>2</td><td>-10</td></tr> <tr><td>6</td><td>-4</td></tr> <tr><td>10</td><td>a</td></tr> <tr><td>14</td><td>8</td></tr> <tr><td>18</td><td>14</td></tr> <tr><td>22</td><td>20</td></tr> </tbody> </table>	x	y	2	-10	6	-4	10	a	14	8	18	14	22	20	<p>You Try:</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-1</td><td>13</td></tr> <tr><td>-3</td><td>16</td></tr> <tr><td>-5</td><td>19</td></tr> <tr><td>-7</td><td>22</td></tr> <tr><td>-9</td><td>25</td></tr> <tr><td>-11</td><td>28</td></tr> </tbody> </table>	x	y	-1	13	-3	16	-5	19	-7	22	-9	25	-11	28
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-9	25																												
-11	28																												

Two Points	
<p>FORMULA:</p>	<p>Example: (-1, 2) and (3, 5)</p>