

## Lesson #126

<p>1.</p> <p>8.EE.7</p> <p><math>h = -3</math></p>	<p>2.</p> <p>8.EE.4</p> <p><math>1.402 \times 10^1 + 4.37 \times 10^0</math>  <math>.437 \times 10^1</math>  <math>1.839 \times 10^1 = 18.39 \text{ meters}</math></p>																				
<p>3.</p> <p>8.SP.2</p> <p>TV and Exercise</p> <p>A) 5.2 hours          B) 12 hours          C) 2.5 hours</p>	<p>4.</p> <p>8.G.7</p> <p><math>a^2 + b^2 = c^2</math>  <math>18^2 + b^2 = 19.7^2</math>  <math>324 + b^2 = 388.09</math>  <math>b = 8 \text{ m}</math>  <math>-324 \quad -324</math>  <math>b^2 = 64.09</math>  <math>b = 8</math></p>																				
<p>5.</p> <p>8.EE.1</p> <p><math>\frac{5 \cdot a \cdot c^{-7}}{1} \quad \frac{5a}{c^7}</math></p>	<p>6.</p> <p>8.EE.8</p> <p><math>x + y = 19</math>  <math>x - y = -7</math>  <math>2x = 12</math>  <math>x = 6</math></p> <p><math>6 + y = 19</math>  <math>-6 \quad -6</math>  <math>y = 13</math>          (6, 13)</p>																				
<p>7.</p> <p>8.F.5</p> <p>No, it decreases and then levels off.</p>	<p>8.</p> <p>8.SP.4</p> <table border="1"> <thead> <tr> <th></th> <th>On Football Team</th> <th>Not on Football Team</th> <th>Total</th> </tr> </thead> <tbody> <tr> <th>On Baseball Team</th> <td>8</td> <td>17</td> <td>25</td> </tr> <tr> <th>Not on Baseball Team</th> <td>24</td> <td>81</td> <td>105</td> </tr> <tr> <th>Total</th> <td>32</td> <td>98</td> <td>130</td> </tr> </tbody> </table>		On Football Team	Not on Football Team	Total	On Baseball Team	8	17	25	Not on Baseball Team	24	81	105	Total	32	98	130				
	On Football Team	Not on Football Team	Total																		
On Baseball Team	8	17	25																		
Not on Baseball Team	24	81	105																		
Total	32	98	130																		
<p>9.</p> <p>8.F.4</p> <p><math>y = mx + b</math>  <math>10 = \frac{10}{3} \cdot 3 + b</math> slope is <math>\frac{10}{3}</math>  <math>10 = 10 + b</math> y-intercept is 6  <math>-10 - 10</math>  <math>b = b</math> <math>y = \frac{10}{3}x + 6</math></p>	<p>10.</p> <p>8.G.4</p> <p>not similar</p>																				
<p>11.</p> <p>8.F.2</p> <table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-4</td><td>-6</td></tr> <tr><td>-3</td><td>-3</td></tr> <tr><td>0</td><td>6</td></tr> <tr><td>1</td><td>9</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>5</td></tr> <tr><td>-1</td><td>7</td></tr> <tr><td>0</td><td>9</td></tr> <tr><td>1</td><td>11</td></tr> </tbody> </table>	x	y	-4	-6	-3	-3	0	6	1	9	x	y	-2	5	-1	7	0	9	1	11	<p>12.</p> <p>8.G.8</p> <p><math>a^2 + b^2 = c^2</math>  <math>6^2 + 6.5^2 = c^2</math>          distance  <math>= 8.85 \text{ units}</math></p>
x	y																				
-4	-6																				
-3	-3																				
0	6																				
1	9																				
x	y																				
-2	5																				
-1	7																				
0	9																				
1	11																				

6.5