

Lesson #115

<p>1.</p> <p>8.EE.1</p> x^2	<p>2.</p> <p>8.EE.7</p> $3(x+10) = x-4$ $3x+30 = x-4$ $-30 \quad -30x = -17$ $3x = x-34$ $-x \quad -x$ <p>one solution</p> $2x = -34$ $x = -17$														
<p>3.</p> <p>8.G.8</p> $9^2 + 10^2 = c^2$ $81 + 100 = c^2$ <p>distance = 13.45 units</p>	<p>4.</p> <p>8.F.2</p> $y = 2x$														
<p>5.</p> <p>8.G.9</p> $\frac{1}{3} \pi r^2 h$ $\frac{4 \cdot 2^2 \cdot 18 \text{ cm}}{3}$ $V = 105.84 \pi \text{ cm}^3$	<p>6.</p> <p>8.G.2</p> <p>congruent; horizontal reflection, translation to the right</p>														
<p>7.</p> <p>8.G.5</p> $m\angle A = 20^\circ$ $m\angle B = 20^\circ$	<p>8.</p> <p>8.G.7</p> $a^2 + b^2 = c^2$ <p>shorter route is diagonal; difference is 216.9 ft</p> $300^2 + 500^2 = c^2$ $340,000 = c^2$														
<p>9.</p> <p>8.F.3</p> <table border="1" data-bbox="332 1360 519 1575"> <thead> <tr> <th colspan="2">$y = x^2 + 2$</th> </tr> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td>6</td> </tr> <tr> <td>-1</td> <td>3</td> </tr> <tr> <td>0</td> <td>2</td> </tr> <tr> <td>1</td> <td>3</td> </tr> <tr> <td>2</td> <td>6</td> </tr> </tbody> </table> <p>no</p>	$y = x^2 + 2$		x	y	-2	6	-1	3	0	2	1	3	2	6	<p>10.</p> <p>8.EE.4</p> $6.34 \times 10^6 - .0182 \times 10^6$ $6,321,800$
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2	6														
<p>11.</p> <p>8.SP.2</p> <p>Spring Weather</p> <p>A) no outliers B) (10, 12) C) (20, 22) D) (40, 16)</p>	<p>12.</p> <p>8.EE.8</p> $\begin{cases} 3x + y = 3 \\ 3x + 2y = -30 \\ -3x - y = -3 \end{cases}$ $y = -33 \quad (12, -33)$														