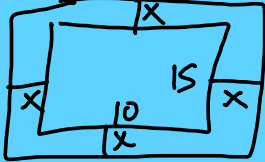
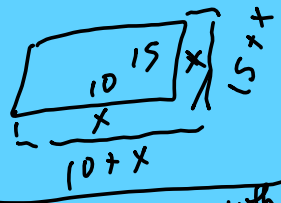


Revenue (price, sales)	Border	Projectile Motion
<p>Rev = (price)(# sold)</p> <p>Avocados \$2.99 10 day \$ ↓ 0.10 2 more</p> $R = (2.99 - 0.1x)(10 + 2x)$ <p>Maximize! Find vertex.</p> $2.99 - 0.1x = 0 \quad 10 + 2x = 0$ $2.99 = 0.1x \quad 10 = -2x$ $29.9 = x \quad -5 = x$ <p>Vertex: $x = \frac{29.9 + -5}{2}$ y = sub in x</p>	 <p>$(10 + 2x)(15 + 2x)$</p>  <p>Solve with factoring or quadratic formula</p>	$h(t) = \frac{1}{2}at^2 + v_0t + s_0$ $a = -9.8 \text{ m/s}^2$ $a = -32 \text{ ft/s}^2$ <hr/> <p>Max height. Find vertex.</p> <hr/> <p>time to strike ground</p> $h = 0$ $0 = -16t^2 + 20t + 10$ <p>Solve for t</p>
<p>Optim 2</p> <p>For + put in standard form</p> <hr/> $x = -b/2a$ $y = \text{sub in } x$		

Revenue
Cost

$$\text{Profit} = \text{Revenue} - \text{Cost}$$