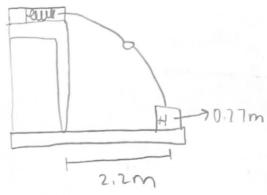
## Question 9 Makenue Holt



$$\frac{1}{2} K \chi^{2} = \frac{1}{2} m v^{2}$$

$$\frac{K \chi^{2}}{m} = \frac{m v^{2}}{m}$$

$$V_{1} = \sqrt{\frac{K \chi^{2}}{m}}$$

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$$X = V + h = \frac{1}{2}gt^2$$
  
 $X = V \cdot \sqrt{\frac{2h}{2}}$ 

$$\frac{\sqrt{2}}{\sqrt{1}} = \frac{D}{D_1} \quad \sqrt{2} = \frac{D}{D_1} \cdot \sqrt{1}$$

$$\frac{1}{2}mV_{1}^{2} = \frac{1}{2}XX^{2}$$

$$V_{2} = \left(\frac{X^{2}}{X_{1}}\right)V_{1} = X_{2} = \frac{D}{D_{1}}X_{1} = \frac{(2.2m)(1.1cm)}{(1.93m)} = 1.25cm$$

y=V1+ 29+ 2 += \frac{729}{9} y=V+