

Question

We have:

$$s = v \cdot t \Rightarrow t = \frac{s}{v} \Rightarrow$$
$$\Rightarrow h = \frac{g \cdot t^2}{2} = \frac{g \cdot s^2}{2 \cdot v^2} = \frac{9.8 \cdot (6520)^2}{2 \cdot (1770)^2} = 66.5 \text{ m.}$$

Answer: 66.5 meters.