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For constant acceleration,

$$s = \frac{1}{2}at^2, \quad t = \left(\frac{2s}{a}\right)^{1/2} = \left(\frac{2(30\,000)}{1.5(9.81)}\right)$$

$$= \underline{63.9 \text{ s}}$$

$$v = \sqrt{2as} = \sqrt{2(1.5)(9.81)(30\,000)} = \underline{940 \text{ m/s}}$$