



$$t = \sqrt{\frac{D_y}{a_y}} = \sqrt{\frac{9}{10}} = 1.34 \text{ s}$$

$$D_x = v_{ix} t = (14)(1.34 \text{ s}) = 18.76 \text{ m}$$



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A ball rolls off of a 9 m tall building at 14 m/s

9m \rightarrow 14 m/s D_x

A) How long is it in the air?

$$t = \sqrt{\frac{D_y}{a_y}} = \sqrt{\frac{9}{10}} = \sqrt{1.8} = 1.34 \text{ s}$$

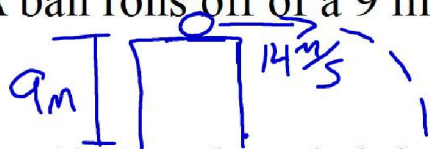
B) How far away from the building does it land?

$$D_x = v_{ix} t = (14)(1.34) = 18.76 \text{ m}$$

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A ball rolls off of a 9 m tall building at 14 m/s



A) How long is it in the air?

$$t = \sqrt{\frac{D_y}{5}} = \sqrt{\frac{9}{5}} = \sqrt{1.8} = 1.34 \text{ s}$$

B) How far away from the building does it land?

$$D_x = V_x t = (14)(1.34) = 18.76 \text{ m}$$

A ball rolls off of a 9 m tall building at 14 m/s

A) How long is it in the air?

B) How far away from the building does it land?





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