

An object is dropped from atop a 20 m tall building. How fast is it going just before it hits the ground?

$$\begin{aligned}
 PE &= KE \\
 mgh &= \frac{1}{2}mv^2 \\
 gh &= \frac{1}{2}v^2 \\
 v^2 &= 2gh \\
 v &= \sqrt{2gh} = \sqrt{2(10)(20)} = \sqrt{20(20)} = 20 \text{ m/s}
 \end{aligned}$$

OR - if using a kinematic eq.

$$\begin{aligned}
 v_f^2 &= v_i^2 + 2\Delta y \\
 v_f^2 &= 0 + 2g(h) \\
 v_f &= \sqrt{2gh}
 \end{aligned}$$

A 5 kg object is moving 8 m/s. It stops due to friction. Calculate the force of friction.



$$KE - W_{fr} = 0$$

$$KE = W$$

$$\frac{1}{2}mv^2 = Fd$$

$$F = \frac{mv^2}{2d} = \frac{5(8^2)}{2(10)} = \frac{5(64)}{2(10)} = \frac{5(6.4)}{2} = 5(3.2) = 15 + 1 = 16 \text{ N}$$

double check

$$v_f^2 = v_i^2 + 2ax$$

$$0 = 64 + 2a(10)$$

$$-64 = 20a$$

$$a = -3.2 \text{ m/s}^2$$

$$F = ma$$

$$= 5(3.2)$$

$$= 16 \text{ N}$$

An object is dropped from 15 m in the air. How fast is it going when it is still 7 m above the ground?

$$PE_{top} = (KE + PE)_{in between}$$

$$mgh_{top} = \frac{1}{2}mv^2 + mgh_{in} \quad (m = \text{cancels})$$

$$10(15) = \frac{1}{2}v^2 + 10(7) \quad \text{or}$$

$$150 = \frac{1}{2}v^2 + 70$$

$$80 = \frac{1}{2}v^2$$

$$160 = v^2$$

$$v = \sqrt{16(10)} = 4\sqrt{10} = 12.7 \text{ m/s}$$

$$\Rightarrow 10(15) - 10(7) = \frac{1}{2}v^2$$

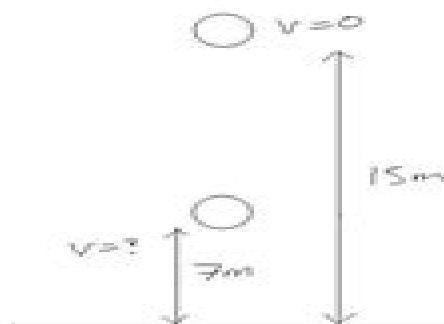
$$10(15 - 7) = \frac{1}{2}v^2$$

$$10(8) = \frac{1}{2}v^2$$

or

$$mgh = \frac{1}{2}mv^2$$

It is like pretending that the ground is at 7 m. All that really matters is the change of PE to KE.



Cstephenmurray Unit 8 4 Thermodynamics Answers

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