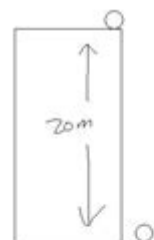


An object is dropped from atop a 20 m tall building. How fast is it going just before it hits the ground?

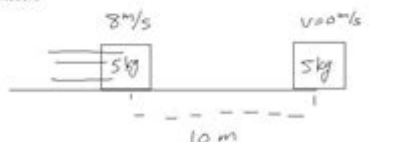


$PE = KE$
 $mgh = \frac{1}{2}mv^2$
 $gh = \frac{1}{2}v^2$
 $v^2 = 2gh$
 $v = \sqrt{2gh} = \sqrt{2(10)(20)} = \sqrt{20(20)} = 20 \text{ m/s}$

OR - if using a kinematic eq.

$v_f^2 = v_i^2 + 2ay$
 $v_f^2 = 0 + 2g(h)$
 $v_f = \sqrt{2gh}$

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

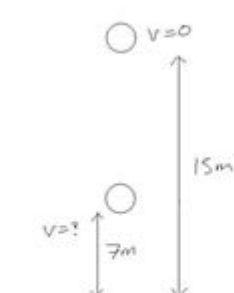


$KE - W_{fr} = 0$
 $KE = W$
 $\frac{1}{2}mv^2 = Fd$
 $F = \frac{mv^2}{2d} = \frac{5(8^2)}{2(10)} = \frac{5(64)}{2(10)} = \frac{5(6.4)}{2} = 5(3.2) = 15 + 1 = 16 \text{ N}$

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?



$PE_{top} = (KE + PE)_{middle}$
 $mgh_{top} = \frac{1}{2}mv_m^2 + mgh_m$ (m = middle)
 $10(15) = \frac{1}{2}v^2 + 10(7)$ or
 $150 = \frac{1}{2}v^2 + 70$
 $80 = \frac{1}{2}v^2$
 $160 = v^2$
 $v = \sqrt{16(10)} = 4\sqrt{10} = 12.7 \text{ m/s}$

$10(15) - 10(7) = \frac{1}{2}v^2$
 $10(15 - 7) = \frac{1}{2}v^2$
 $10(8) = \frac{1}{2}v^2$
 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.

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