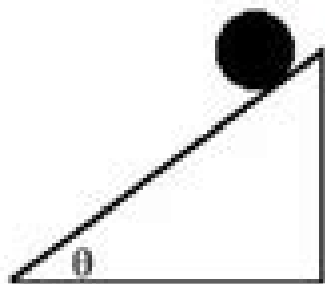


# Example



A very common problem is to find the velocity of a ball rolling down an inclined plane. It is important to realize that you cannot work out this problem the way you used to. In the past, everything was SLIDING. Now the object is rolling and thus has MORE energy than normal. So let's assume the ball is like a thin spherical shell and was released from a position 5 m above the ground. Calculate the velocity at the bottom of the incline.

$$E_{before} = E_{after}$$

$$U_g = K_T + K_R$$

$$mgh = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2$$

$$v = R\omega \quad I_{sphere@cm} = \frac{2}{3}mR^2$$

$$mgh = \frac{1}{2}mv^2 + \frac{1}{2}\left(\frac{2}{3}mR^2\right)\left(\frac{v^2}{R^2}\right)$$

$$gh = \frac{1}{2}v^2 + \frac{1}{3}v^2$$

$$v = \sqrt{\frac{6}{5}gh} = \sqrt{\frac{6}{5}(9.8)(5)} = \mathbf{7.67 \text{ m/s}}$$

$$E_{before} = E_{after}$$

$$U_g = K_T$$

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

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

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

$$v = \sqrt{2gh} = \sqrt{2(9.8)(5)} = 9.90 \text{ m/s}$$

If you HAD NOT included the rotational kinetic energy, you see the answer is very much different.

# Rotational Motion Physics Study Guide Answers

**Jiyuan Zhang**



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