

Physics Problem-Solving Method

- 1 Read the problem carefully, twice
 - It's easy to miss something or read it the wrong way

2x

A 5 kg ball is dropped from rest at a height of 8 m. Ignoring air resistance, how fast will it be travelling when it hits the ground?

- 2 Draw a picture
 - Include the objects, geometry, forces and other information that are relevant to solving the problem
 - Choose the origin and the positive direction



- 3 Write what you are given, your assumptions, and what the problem is asking you to find
 - Keep in mind that the problem may give you more information than you need to solve it

$$\begin{array}{ll} m = 5 \text{ kg} & v_i = 0 \text{ m/s} \\ y_i = 8 \text{ m} & g = 9.8 \text{ m/s}^2 \\ y_f = 0 \text{ m} & \underline{v_f = ?} \end{array}$$

- 4 Figure out which physics concept(s) you can use, and think through how you could solve the problem conceptually before starting
 - There may be more than one concept you can use
 - Have at least some idea of how you will solve the problem before you start using equations and plugging in numbers

kinematics
→ conservation of energy
- conservation of momentum -

"All of the ball's initial potential energy will be converted into kinetic energy, which includes velocity, so if I..."

- 5 Check the equations from that concept(s) and decide which ones you can use
 - Look for equations that have the variables you know and the variables you want to find

Energy

$$\Sigma E_i = \Sigma E_f$$

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

$$U = mgh$$

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

$$U_i = \frac{1}{2}kx^2$$

- 6 Solve the equation(s) and do the math
 - Recommended but optional: rearrange and combine equations to solve for the variable you're looking for first, then plug in numbers at the end
 - Keep your work organized and easy to follow
 - Make sure you use the correct units

$$E_i = E_f$$

$$K_i + U_i = K_f + U_f$$

$$mgh_i = \frac{1}{2}mv_f^2$$

$$\sqrt{2gh_i} = v_f$$

$$\sqrt{2(9.8)(8)} = v_f$$

$$\boxed{12.5 \text{ m/s} = v_f}$$

- 7 Check your answer
 - Did you actually find what the problem asked for?
 - Do your units make sense?
 - Do the magnitude and sign (+/-) make sense?

A 5 kg ball is dropped from rest at a height of 8 m. Ignoring air resistance, how fast will it be travelling when it hits the ground?

$$\checkmark v_f = 12.5 \text{ m/s}$$

Problems Of Physics

L. A. Sena



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