

Name: _____

Work, Energy & Power Review Questions



1. An 80-kilogram student slides down a water slide at a constant speed of 15 m/s. What is the kinetic energy of the student?

$$KE = \frac{1}{2}mv^2 = \frac{1}{2}(80 \text{ kg})(15 \frac{\text{m}}{\text{s}})^2 = \boxed{9000 \text{ J}}$$

2. If the speed of a moving object is tripled, the kinetic energy of the object is x9.

$$9KE = \frac{1}{2}m(3v)^2$$

3. While playing with his new toy, Cameron runs a 15-kilogram RC car into a tree such that it loses 2,000 joules of kinetic energy. What was the speed of the car at the moment it began to slow down? Where did that energy go?

$$\Delta K = 2000 \text{ J} = \frac{1}{2}mv^2 \Rightarrow 4000 \text{ J} = mv^2 \Rightarrow v^2 = \frac{4000 \text{ J}}{15 \text{ kg}} \Rightarrow v^2 = 267 \frac{\text{m}^2}{\text{s}^2} \Rightarrow \boxed{v = 16.3 \frac{\text{m}}{\text{s}}}$$



4. While riding an elevator, a 70-kilogram woman is raised a vertical distance of 60 meters in a time of 8 seconds.

A) What force must the elevator apply to the woman to raise her?

$$F_{\text{net}} = mg = (70 \text{ kg})(9.81 \frac{\text{m}}{\text{s}^2}) = \boxed{686.7 \text{ N}}$$

B) How much work does the elevator do on the woman?

$$W = Fd = (686.7 \text{ N})(60 \text{ m}) = \boxed{41,202 \text{ J}}$$

C) How much power must the elevator apply to the woman?

$$P = \frac{W}{t} = \frac{41,202 \text{ J}}{8 \text{ s}} = \boxed{5150 \text{ W}}$$

D) What is the woman's change in gravitational potential energy?

$$\Delta PE_g = \boxed{41,202 \text{ J}}$$

E) Assume an energy tracking device determines that the actual energy used by the elevator to raise the woman was 50,000 joules. How could you explain the discrepancy?

8798 Joules of energy lost to friction (internal energy)

Work Energy And Power Worksheet Answers

Ian Pickup



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