

Practice Problems

10.1 Energy and Work
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1. Refer to Example Problem 1 to solve the following problems.
 - a. If the hockey player exerted twice as much force, 9.00 N, on the puck, how would the puck's change in kinetic energy be affected?
Because $W = Fd$ and $\Delta KE = W$, doubling the force would double the work, which would double the change in kinetic energy to 1.35 J.
 - b. If the player exerted a 9.00 N-force, but the stick was in contact with the puck for only half the distance, 0.075 m, what would be the change in kinetic energy?
Because $W = Fd$, halving the distance would cut the work in half, which also would cut the change in kinetic energy in half, to 0.68 J.
2. Together, two students exert a force of 825 N in pushing a car a distance of 35 m.
 - a. How much work do the students do on the car?

$$W = Fd = (825 \text{ N})(35 \text{ m})$$

$$= 2.9 \times 10^4 \text{ J}$$
 - b. If the force was doubled, how much work would they do pushing the car the same distance?

$$W = Fd$$

$$= (2)(825 \text{ N})(35 \text{ m})$$

$$= 5.8 \times 10^4 \text{ J which is twice as much work}$$

3. A rock climber wears a 7.5-kg backpack while scaling a cliff. After 30.0 min, the climber is 8.2 m above the starting point.

- a. How much work does the climber do on the backpack?

$$\begin{aligned} W &= Fd \\ &= mgd \\ &= (7.5 \text{ kg})(9.80 \text{ m/s}^2)(8.2 \text{ m}) \\ &= 6.0 \times 10^2 \text{ J} \end{aligned}$$

- b. If the climber weighs 645 N, how much work does she do lifting herself and the backpack?

$$\begin{aligned} W &= Fd + 6.0 \times 10^2 \text{ J} \\ &= (645 \text{ N})(8.2 \text{ m}) + 6.0 \times 10^2 \text{ J} \\ &= 5.9 \times 10^3 \text{ J} \end{aligned}$$

- c. What is the average power developed by the climber?

$$\begin{aligned} P &= \frac{W}{t} = \left(\frac{5.9 \times 10^3 \text{ J}}{30.0 \text{ min}} \right) \left(\frac{1 \text{ min}}{60 \text{ s}} \right) \\ &= 3.3 \text{ W} \end{aligned}$$

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4. If the sailor in Example Problem 2 pulled with the same force, and along the same distance, but at an angle of 50.0°, how much work would he do?

$$W = Fd \cos \theta$$

$$= (255 \text{ N})(30.0 \text{ m})(\cos 50.0^\circ)$$

$$= 4.92 \times 10^3 \text{ J}$$
5. Two people lift a heavy box a distance of 15 m. They use ropes, each of which makes an angle of 15° with the vertical. Each person exerts a force of 225 N. How much work do they do?

$$W = Fd \cos \theta$$

$$= (2)(225 \text{ N})(15 \text{ m})(\cos 15^\circ)$$

$$= 6.5 \times 10^3 \text{ J}$$

Physics Solution Manual Chapter 9

Wallace J. Hopp, Mark L. Spearman



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