Don't forget to EXPLAIN these answers!

C.3	A skydiver jumps out of a plane. Does the mechanical energy of the jumper change while she is falling? Ignore the effects of air resistance.
	⊚ Yes ⊚ No
	view answer
C.4	At the gym, your trainer places a 8.0 kg dumbbell in each of your outstreched hands. You hold them there for 20 seconds. Have you done any work during those 20 seconds?
	⊚ Yes ⊚ No
1.1	An airline pilot pulls her 12.0 kg rollaboard suitcase along the ground with a force of 25.0 N for 10.0 meters. The handle she pulls on makes an angle of 36.5 degrees with the horizontal. How much work does she do over the ten-meter distance?
	J
	view answer
6.3	A bullet of mass 10.8 g leaves a gun barrel with a velocity of 511 m/s. What is the bullet's kinetic energy?
	J
	view answer
7.3	A hockey stick applies a constant force over a distance of 0.121 m to an initially stationary puck, of mass 152 g. The puck moves with a speed of 51.0 m/s. With what force did the hockey stick strike the puck?
	N
	view answer
12.1	How much power would be required to hoist a 48 kg couch up to a 22 m high balcony in 5.0 seconds? Assume it starts and ends at rest.
	view answer