

5.6 Review Questions

1. A 60 Kg person runs up a flight of stairs that are 6.0 m high. It took her 45 seconds to get there.
 - a. How much work did she do to get to the top of the stairs?
 - b. How much power did she use to get to the top of the stairs?
2. If a 60 Watt light bulb is left on for 10 hours, how much energy has it used?
3. A 750 Kg car goes from zero to 20 m/s in a time of 15.0 seconds. How powerful is the engine? (TIP: figure out how much KE the car gained)
4. Why is a truck considered more powerful than a person?