

Physics Core Questions:

1. You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has _____ energy. Calculate it.
2. There is a bell at the top of a tower that is 45 m high. The bell weighs 190 N. The bell has _____ energy. Calculate it.
3. You must exert a force of 4.5N on a book to slide it across a table. If you do 2.7 J of work in the process, how far has the book moved?
4. How much work is done on a small car if a 3150N force is exerted to move it 75.5m to the side of the road?
5. What is the mass of a 750N person?