Kinetic energy calculations

1. A car that travels at a speed of 20m/s and has a mass of 1200 kg. Find its KE.
2. A year 11 pupil with a mass of 55kg swinging back on their chair and falling off it at a speed of 0.6m/s. Find its KE.
3. Bus travelling through town, with a mass of 5040kg and kinetic energy of 493900J. Find its speed.
4. Automatic door closing 0.2m/s, with a kinetic energy of 1.6J. Find its mass.
5. A runner with a mass of 62kg running at a speed of 0.8m/s. Find its KE.
6. Automatic door closing 0.2m/s, with a kinetic energy of 1.6J. Find its mass.
7. Wind turbine blade with a kinetic energy of 104040J, turning at 6m/s. Find its mass.
8. A tennis ball travelling at a speed of 46m/s with a mass of 58kg. Find its KE.
9. A lift travelling up to the top floor of the Empire State building with a mass of 4200kg and a kinetic energy of 4116J. Find its speed.
10. Bird flying towards its nest with a mass of 0.25kg and a kinetic energy of 40.5J. Find its speed.
11. A dog running across a field at a speed of 1.2m/s with a mass of 3.2kg. Find its KE.
12. A Wii remote flung from a hand through a TV, with a kinetic energy of 1.44J and a mass of 4.5kg. Find its speed.
13. Aeroplane travelling at 75m/s with a kinetic energy of 843700J. Find its mass.
14. Hot air balloon with a kinetic energy of 76550J and a mass of 1890kg. Find its speed.
15. Canoe moving down the river with a kinetic energy of 5J and a speed of 0.5m/s. Find its mass.
16. Child riding a bike at a speed of 6m/s, with a total kinetic energy of 1224J. If the mass of the child is 30kg, what is the mass of the bike?