



KINETIC ENERGY



1. Use the following equation to help you complete the questions on this worksheet:

$$\text{Kinetic Energy} = 0.5 \times \text{Mass} \times (\text{speed})^2$$

(J) (kg) (m/s)

- a. A car with a mass of 200kg travels at a speed of 60 m/s.
Calculate the total kinetic energy of the car. [2 marks]
- b. A train with a mass of 2500kg travels at a speed of 200m/s.
Calculate the total kinetic energy of the aeroplane. [2 marks]
- c. A man throws a ball with a mass of 5kg and travels at a speed of 15m/s.
Calculate the total kinetic energy of the ball. [2 marks]
- d. A dog with a mass of 45kg is running through a field at a speed of 30m/s.
Calculate the total kinetic energy of the dog. [2 marks]
- e. John throw a biscuit at a speed of 10m/s. The biscuit had a mass of 3kg.
Calculate the total kinetic energy of the biscuit. [2 marks]
- f. A washing contains some t-shirts with a mass of 50kg. The washing is able to spin at 50m/s.
Calculate the total kinetic energy of the t-shirts inside the washing machine. [2 marks]
- g. Tim flicked a 2kg elastic band from his hand. The band travelled at a speed of 50m/s.
Calculate the total kinetic energy of the elastic band. [2 marks]
- h. The international space station travels around the Earth at a speed of 7.66km/s. It has a mass of 417,289kg.
Calculate the total kinetic energy of the elastic band. [3 marks]
- i. The average speed a horse can run at is 44km/s and an average mass of 500000g.
Calculate the total kinetic energy of an average horse when running. [4 marks]

Kinetic Energy Questions And Answers

**Jack Rudman, National Learning
Corporation**



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