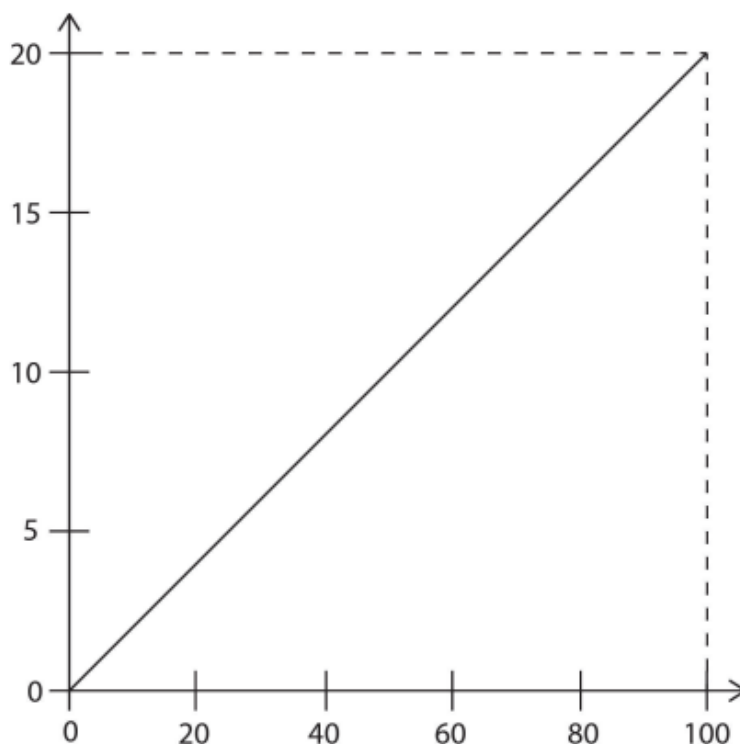# 2013

23   Consider this graph.

Which one of the following could the graph **not** represent if all quantities are in S.I. units?

A   The variation of the acceleration (*y*-axis) of a body of mass 5.0 kg with the resultant force acting on the body (*x*-axis).

B   The variation of the current (*y*-axis) through a 5.0 Ω resistor with the applied voltage (*x*-axis).

C   The variation of the kinetic energy (*y*-axis) of a body of mass 0.4 kg with the square of its speed (*x*-axis).

D   The variation of the wavelength (*y*-axis) of waves with a speed of 0.2 m/s with their frequency (*x*-axis).

E   The variation of the work done (*y*-axis) by a force of 0.2 N with the distance it moves through (*x*-axis).