

- 16** A car of total mass 1560 kg is travelling with a constant speed of  $32\text{ms}^{-1}$ . The driving force provided by the car is 680 N. The kinetic energy of the car is 800 kJ and its momentum is 50 000 N s.

Which two items of data could be used to calculate the useful power output of the car?

- A** driving force and momentum
- B** kinetic energy and mass
- C** mass and momentum
- D** speed and driving force

- 17** A horizontal cylinder of mass 500 g is fired horizontally from a gun. Air filled with spherical particles is shot into the cylinder at a rate of 100 g s<sup>-1</sup>.