

**14** During an interval of time, fuel supplies energy  $X$  to a car.

Some of this energy is converted into kinetic energy as the car accelerates.

The rest of the energy  $Y$  is lost as thermal energy.

What is the efficiency of the car?

**A**  $\frac{X}{X - Y}$

**B**  $\frac{Y}{X - Y}$

**C**  $\frac{X - Y}{X}$

**D**  $\frac{X - Y}{Y}$

**15** In a hydroelectric power station, water is used to generate electricity.