

17 The data below are taken from a test of a petrol engine for a motor car.

power output	150 kW
fuel consumption	20 litres per hour
energy content of fuel	40 MJ per litre

What is the ratio $\frac{\text{power output}}{\text{power input}}$?

A $\frac{150 \times 10^3}{40 \times 10^6 \times 20 \times 60 \times 60}$

B $\frac{150 \times 10^3 \times 60 \times 60}{20 \times 40 \times 10^6}$

C $\frac{150 \times 10^3 \times 40 \times 10^6 \times 20}{60 \times 60}$

D $\frac{150 \times 10^3 \times 20}{40 \times 10^3 \times 60 \times 60}$