

**19** An object travelling with a speed of  $10 \text{ m s}^{-1}$  has kinetic energy of 1500 J.

The speed of the object is increased to  $40 \text{ m s}^{-1}$ .

What is the new kinetic energy of the object?

**A** 4500 J

**B** 6000 J

**C** 24 000 J

**D** 1 350 000 J