

**12** A bullet of mass 8.0g travels at a speed of  $300\text{ ms}^{-1}$ . The bullet hits a target and stops after a time of  $100\text{ }\mu\text{s}$ .

What is the average force exerted by the target on the bullet?

**A** 24 N

**B** 240 N

**C** 2400 N

**D** 24 000 N