5 A bat is an animal that locates objects using a pulse-echo technique.

A bat emits a pulse of sound waves that travel to an object. The bat detects the reflected pulse 6.0 ms later.

speed of sound $= 340 \, \text{m s}^{-1}$

Which of the following gives the distance, in metres, of the object from the bat?

- ☒ **A** 340×3.0
- ☒ **B** 340×6.0
- ☒ **C** 340×0.0030
- ☒ **D** 340×0.0060

(Total for Question 5 = 1 mark)