

**5** A student measured the length of a structure using a microscope.

The magnification used was  $\times 250$ .

The image size of the structure was 5.00 mm.

What was the actual length of the structure?

**A**  $1.25 \times 10^3$  mm

**B**  $1.25 \times 10^3$   $\mu\text{m}$

**C**  $2.00 \times 10^1$   $\mu\text{m}$

**D**  $2.00 \times 10^{-5}$   $\mu\text{m}$