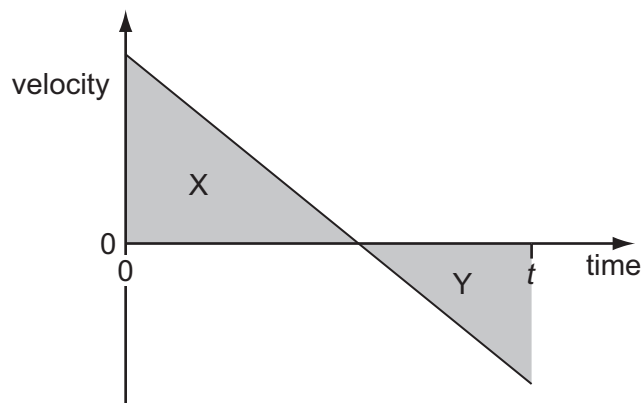**8**   The velocity-time graph below is for a stone thrown vertically up into the air. Air resistance is negligible.

The stone is thrown up at time zero.

Area X represents a distance of 5 m. Area Y represents a distance of 3 m.

What is the displacement of the stone from its initial position at time t?

A   2 m   **B**   3 m   **C**   5 m   **D**   8 m

Space for working