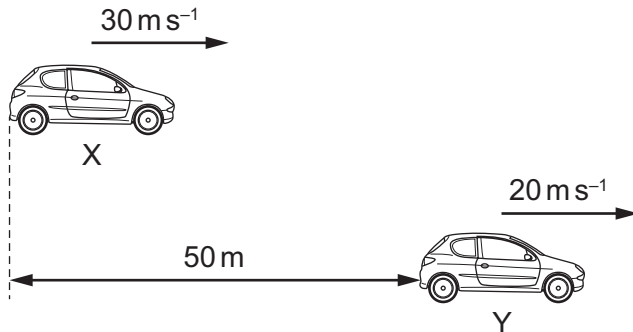**7** Two cars X and Y are positioned as shown at time $t = 0$.

They are travelling in the same direction.

X is 50 m behind Y and has a constant velocity of $30\,\mathrm{m\,s^{-1}}$. Y has a constant velocity of $20\,\mathrm{m\,s^{-1}}$.

What is the value of t when X is level with Y?

A 1.0 s   **B** 1.7 s   **C** 2.5 s   **D** 5.0 s