

8 A string is placed under tension T . A wave travels along the string.

A second string has the same mass but twice the length. A wave travels along this string with the same velocity as the wave in the first string.

Which of the following is the tension in the second string?

☐ A $4T$

☐ B $2T$

☐ C $\frac{T}{2}$

☐ D $\frac{T}{4}$

(Total for Question 8 = 1 mark)