

- 14** In a high-wire circus act, a man of mass 85 kg is standing at rest at the midpoint of the wire.



The wire on either side of the man is at an angle of  $20^\circ$  to the horizontal.

What is the tension  $T$  in the wire?

- A** 0.44 kN      **B** 0.89 kN      **C** 1.2 kN      **D** 2.4 kN

- 15** A light inextensible string of length 10 m is fastened to two points which are 8 m apart.