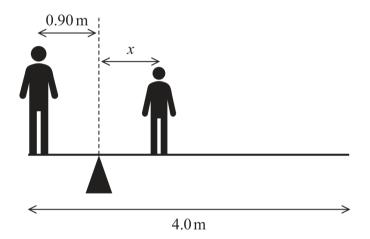
SECTION B

Answer ALL questions in the spaces provided.

11 A uniform plank of length 4.0 m is pivoted 0.90 m from one end. The weight of the plank is 250 N. A person of weight 950 N stands at one end of the plank. A person of weight 650 N stands a distance x from the pivot so that the plank is in equilibrium, as shown.



(a) Add to the diagram to show the forces acting on the plank.

(2)

(b) Calculate the distance *x*.

(3)

 $\chi =$