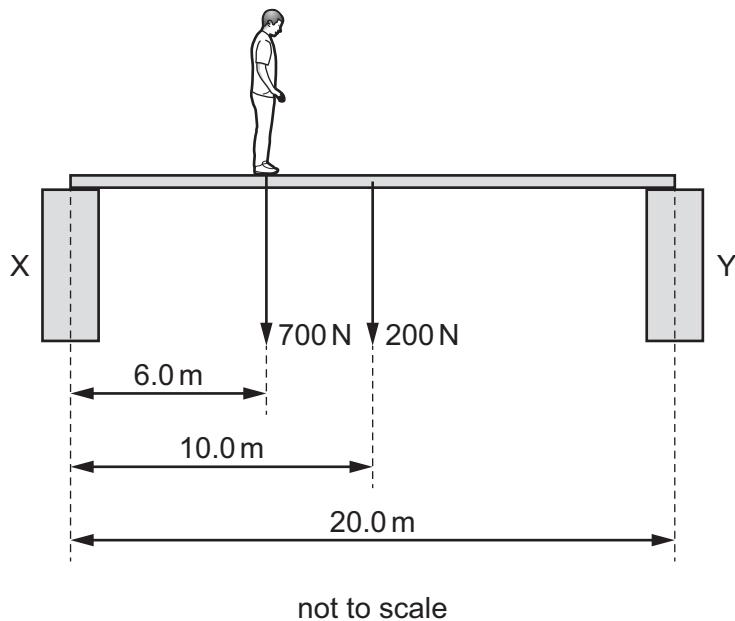


15 A uniform beam rests on two supports, X and Y, as shown.



The beam has length 20.0 m and weight 200 N.

A man of weight 700 N stands on the beam at a distance of 6.0 m from support X.

The beam is in equilibrium.

What is the contact force of support X on the beam?

- A** 310 N      **B** 450 N      **C** 590 N      **D** 900 N