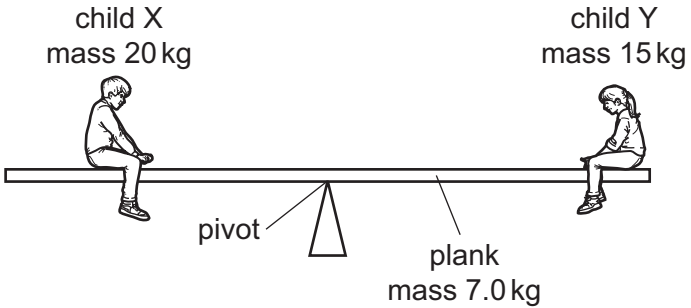
9 The diagram shows a child X of mass 20 kg and a child Y of mass 15 kg seated on a uniform plank.



The plank has a mass of 7.0 kg and has a pivot at its midpoint. The plank is horizontal and in equilibrium.

Which statement about the weight of the plank is correct?

A The weight of the plank can be considered to be acting at its midpoint.

B The weight of the plank is causing an anticlockwise moment.

C The weight of the plank is causing a clockwise moment.

D The weight of the plank equals the force on the plank from the pivot.