17	A uniform plank $PQ$ , of length 7 metres, lies horizontally at rest, in equilibrium, on two fixed supports at points $X$ and $Y$
	The distance $PX$ is 1.4 metres and the distance $QY$ is 2 metres as shown in the diagram below.
	← 7 m →
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
17 (a)	The reaction force on the plank at $X$ is $4g$ newtons.
17 (a) (i)	Show that the mass of the plank is 9.6 kilograms. [2 marks]
17 (a) (ii)	Find the reaction force, in terms of $g$ , on the plank at Y [2 marks]
17 (b)	The support at Y is moved so that the distance $QY = 1.4$ metres.
	The plank remains horizontally at rest in equilibrium.
	It is claimed that the reaction force at Y remains unchanged.

Explain, with a reason, whether this claim is correct.

[2 marks]