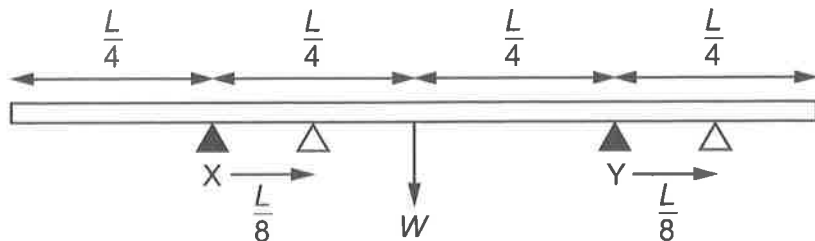**14** A uniform plank, of weight W and length L, is supported at points X and Y, each at distance $\dfrac{L}{4}$ from the ends of the plank.

What is the increase of the force on the plank exerted by support X if both X and Y are moved a distance $\dfrac{L}{8}$ to the right from their original positions?

A $\dfrac{W}{16}$ **B** $\dfrac{W}{8}$ **C** $\dfrac{W}{4}$ **D** $W\left(\dfrac{5}{16}\right)$