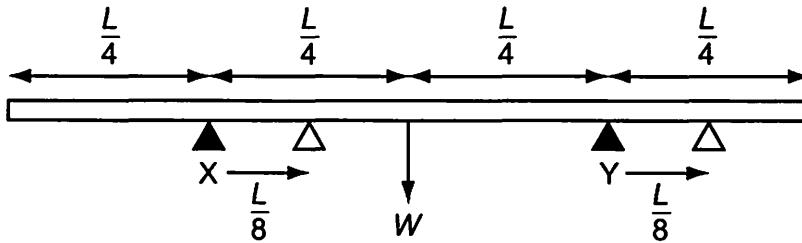


- 11 A uniform plank, of weight W and length L is supported at points X and Y, each at distances $\frac{L}{4}$ from the ends of the plank.



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

A $\frac{W}{16}$

B $\frac{W}{8}$

C $\frac{W}{4}$

D $W(\frac{5}{16})$