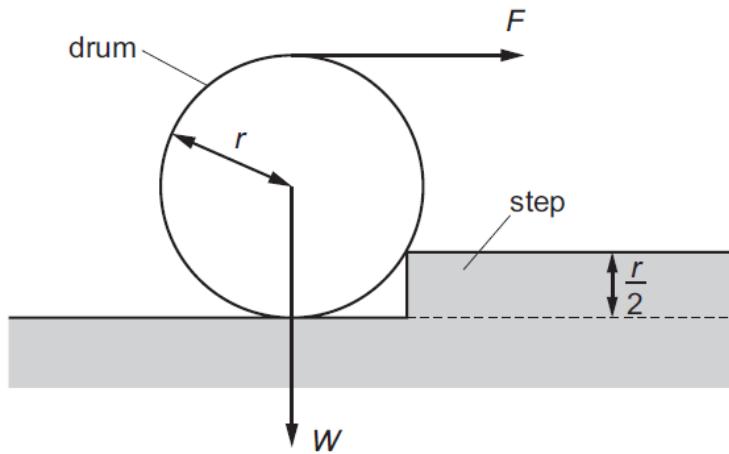


- 6 A cylindrical drum has radius r and weight W . The drum is to be rolled over onto a step of height $\frac{r}{2}$ by a horizontal force F applied to the top of the drum.



What is the minimum force F required for the drum to start rolling on the step?

A $\frac{W}{2}$

B $\frac{W}{\sqrt{3}}$

C W

D $\frac{\sqrt{3}}{2}W$