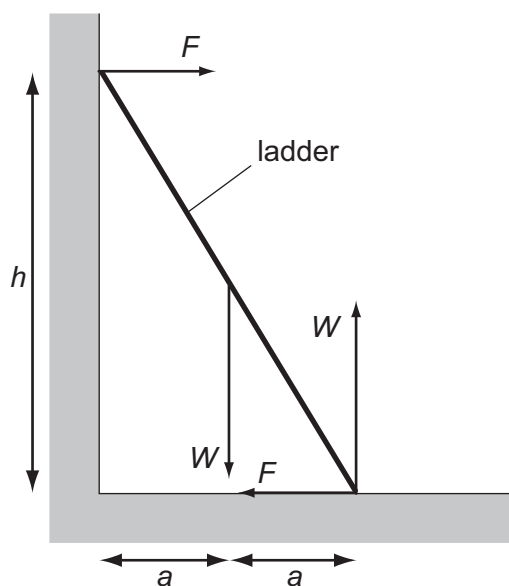


- 12** A uniform ladder rests against a vertical wall where there is negligible friction. The bottom of the ladder rests on rough ground where there is friction. The top of the ladder is at a height h above the ground and the foot of the ladder is at a distance $2a$ from the wall.

The diagram shows the forces that act on the ladder.



Which equation is formed by taking moments?

- A** $Wa + Fh = 2Wa$
- B** $Fa + Wa = Fh$
- C** $Wa + 2Wa = Fh$
- D** $Wa - 2Wa = 2Fh$

Space for working