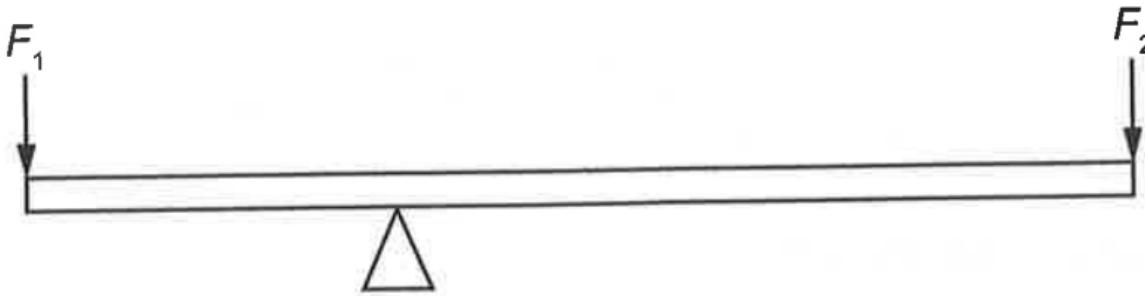


- 12 A uniform beam is balanced under the action of four forces  $F_1$ ,  $F_2$ , its weight and a support force from the pivot.



Which statement is correct?

- A  $F_1 = F_2$ .
- B  $F_2$  is greater than  $F_1$ .
- C The beam is acted on by a couple.
- D There is no resultant torque acting on the beam.

- 13 When a gas, trapped in a syringe, expands from volume  $V_i$  to volume  $V_f$  against a constant