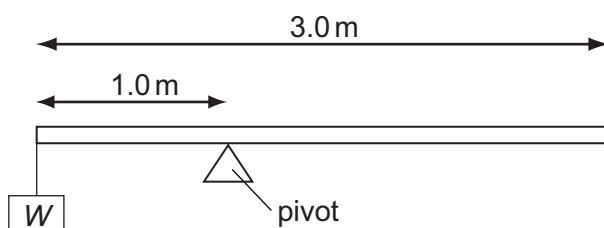
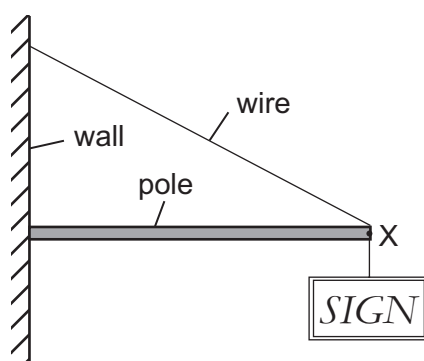


- 13 A uniform beam of weight 50 N is 3.0 m long and is supported on a pivot situated 1.0 m from one end. When a load of weight W is hung from that end, the beam is in equilibrium, as shown in the diagram.



What is the value of W ?

- A 25 N B 50 N C 75 N D 100 N
- 14 The diagram shows a sign of weight 20 N suspended from a pole, attached to a wall. The pole is kept in equilibrium by a wire attached at point X of the pole.



The force exerted by the pole at point X is F , and the tension in the wire is 40 N.

Which diagram represents the three forces acting at point X?

