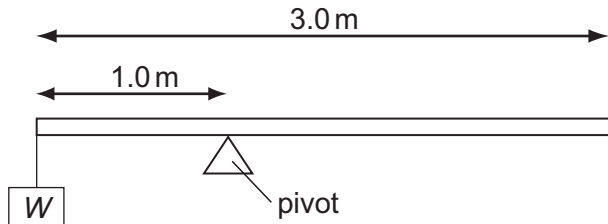**13** A uniform beam of weight 50 N is 3.0 m long and is supported on a pivot situated 1.0 m from one end. When a load of weight W is hung from that end, the beam is in equilibrium, as shown in the diagram.

What is the value of W?

A 25 N **B** 50 N **C** 75 N **D** 100 N