

## QUESTION

1. A beam of length  $L$  is supported at both ends. A weight  $W$  is suspended from the center of the beam. The beam is in equilibrium. What is the reaction force at each support?



2. A beam of length  $L$  is supported at both ends. A weight  $W$  is suspended from the center of the beam. The beam is in equilibrium. What is the reaction force at each support?

## ANSWER

1. The reaction force at each support is  $\frac{W}{2}$ .

2. The reaction force at each support is  $\frac{W}{2}$ .