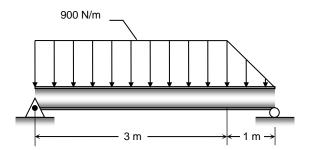
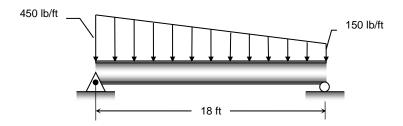
## **Example**

For the simply supported beam below, replace the distributed load with a single force and give its location.



## **Example**

For the simply supported beam below, replace the distributed load with a single force and give its location.



## **Example**

The concrete structure in the figure is suggested as a design for a dam. For a one-foot thickness, find the resultant weight of the dam and give its location. The specific weight of concrete can be taken to be  $\gamma_c$  = 150 lb/ft<sup>3</sup>.

