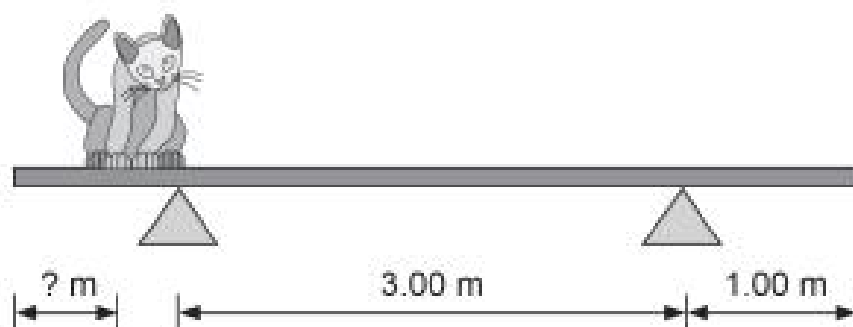


Question 6**(3 marks)**

A large cat ($m = 8.00\text{ kg}$) is on a uniform 5.00 m long, 4.00 kg beam resting on two supports.



Determine the distance from the end of the beam at which the cat will make the system unstable.