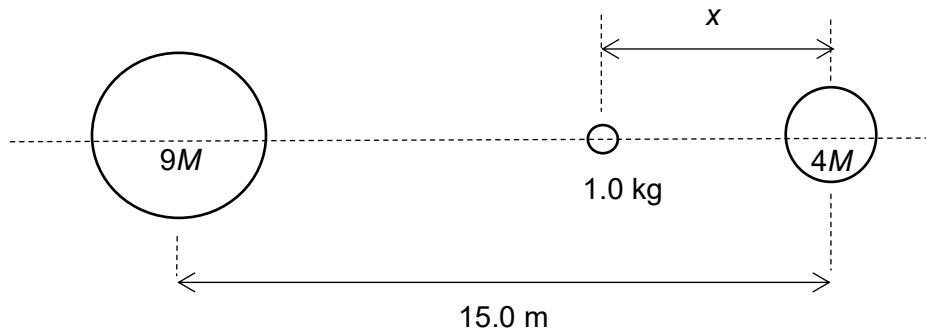


- 12** A 1.0 kg mass is placed between two masses of mass $9M$ and $4M$ respectively. The distance between the two masses is 15.0 m.

If the net gravitational force due to the two masses on the 1.0 kg mass is zero, what is the distance x ?

(Diagram is not to scale)



A 3.0 m

B 4.0 m

C 5.0 m

D 6.0 m