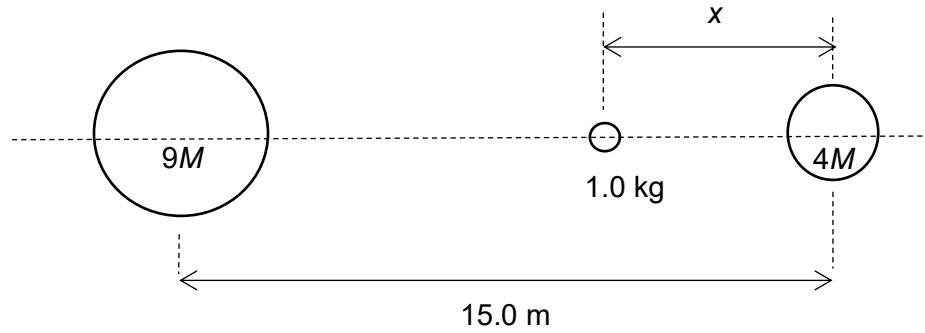


- 12** A 1.0 kg mass is placed between two masses of mass  $9M$  and  $4M$  respectively. The distance between the two masses is 15.0 m.

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