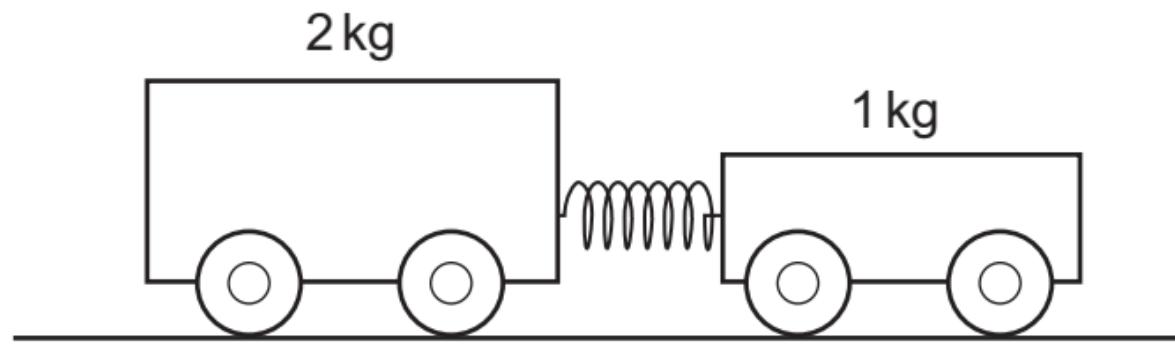


**10** Two trolleys are held together on a horizontal surface with a compressed spring between them.



When they are released, the trolleys lose contact with the spring. The trolley of mass 2 kg moves to the left at a final speed of  $2 \text{ m s}^{-1}$ .

How much elastic potential energy was stored in the spring?

**A** 4 J

**B** 6 J

**C** 8 J

**D** 12 J