

2 A trolley, mass 0.50 kg , has a speed of 2.0 m s^{-1} . A second trolley, mass 1.0 kg , has a speed of 2.0 m s^{-1} . The two trolleys are travelling in opposite directions and collide.

Which of the following could be a correct value of total momentum, in kg m s^{-1} , after the collision?

- ☐ A 0
- ☐ B 1.0
- ☐ C 2.0
- ☐ D 3.0

(Total for Question 2 = 1 mark)