

- 6 Two objects are travelling directly towards each other and then collide. Object A is a mass of 2 kg initially travelling to the right at 3 m s^{-1} and object B is a mass of 5 kg initially travelling to the left at 2 m s^{-1} .

What is the total momentum of A and B after the collision?

- ☐ A 4 kg m s^{-1} to the left
- ☐ B 4 kg m s^{-1} to the right
- ☐ C 16 kg m s^{-1} to the left
- ☐ D 16 kg m s^{-1} to the right

(Total for Question 6 = 1 mark)