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1. Select two objects B and C on a horizontal, frictionless track. They collide at a right angle with a common velocity \mathbf{v} as shown. **Transfer to answer**

Fig. 1.1 shows the situation before the collision.

Transfer to answer

$\Delta t = 0.10 \text{ s}$

Fig. 1.2 shows the situation after the collision.

24. (a) Give the **conservation of momentum** equation. **Transfer to answer**

momentum before = 0

momentum after = $m_B \mathbf{v}_B + m_C \mathbf{v}_C$ **Give velocity B to the right and velocity C to the left**

(b) **Impulse** is **the total change in momentum** and that with a constant force, **is equal to weight**. The mass of trolley B is **0.20 kg**.

Complete the calculations:

momentum before collision = **momentum after collision**

$m_B \mathbf{v}_B + m_C \mathbf{v}_C = m_B \mathbf{v}_B' + m_C \mathbf{v}_C'$

$(0.20)(0.40) + 0 = 0.20 \mathbf{v}_B' + 0.10 \mathbf{v}_C'$

$0.08 = 0.20 \mathbf{v}_B' + 0.10 \mathbf{v}_C'$

$0.8 = 2 \mathbf{v}_B' + \mathbf{v}_C'$

area of rectangle = **1.60 kg**

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