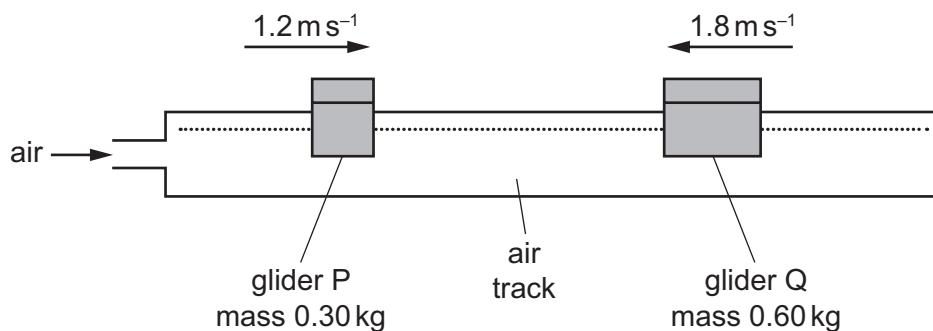


- 10 Two gliders are travelling towards each other on a horizontal air track. Glider P has mass  $0.30\text{ kg}$  and is moving with a constant speed of  $1.2\text{ m s}^{-1}$ . Glider Q has mass  $0.60\text{ kg}$  and is moving with a constant speed of  $1.8\text{ m s}^{-1}$ .



The gliders have a perfectly elastic collision.

What are the speeds of the two gliders after the collision?

	speed of P $/\text{m s}^{-1}$	speed of Q $/\text{m s}^{-1}$
<b>A</b>	1.2	0.6
<b>B</b>	2.0	1.4
<b>C</b>	2.8	0.2
<b>D</b>	3.6	0.6