

- 6 The table shows four different collisions between two blocks, each of mass 0.50 kg . Which collision is perfectly elastic?

	before collision	after collision
A	$4.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div> 0.0 ms^{-1} <div>0.50 kg</div>	$2.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg 0.50 kg</div>
B	$2.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div> $\leftarrow 2.0\text{ ms}^{-1}$ <div>0.50 kg</div>	0.0 ms^{-1} <div>0.50 kg 0.50 kg</div>
C	$2.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div> $\leftarrow 1.0\text{ ms}^{-1}$ <div>0.50 kg</div>	$\leftarrow 2.0\text{ ms}^{-1}$ <div>0.50 kg</div> $3.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div>
D	$4.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div> $1.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div>	$1.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div> $4.0\text{ ms}^{-1} \rightarrow$ <div>0.50 kg</div>