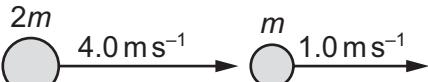
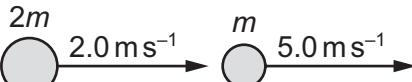
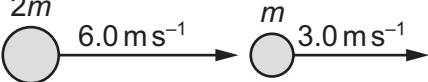
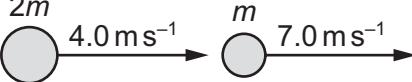
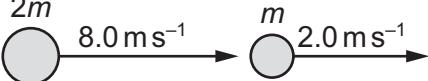
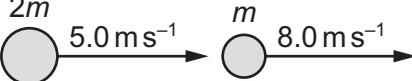
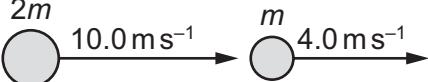
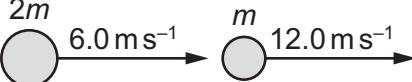


- 10 Two balls, one of mass  $2m$  and one of mass  $m$ , collide.

The diagrams show the initial and final velocities of the balls.

Which collision is **not** elastic?

	before collision	after collision
A	$2m$  $4.0 \text{ ms}^{-1}$ $1.0 \text{ ms}^{-1}$	$2m$  $2.0 \text{ ms}^{-1}$ $5.0 \text{ ms}^{-1}$
B	$2m$  $6.0 \text{ ms}^{-1}$ $3.0 \text{ ms}^{-1}$	$2m$  $4.0 \text{ ms}^{-1}$ $7.0 \text{ ms}^{-1}$
C	$2m$  $8.0 \text{ ms}^{-1}$ $2.0 \text{ ms}^{-1}$	$2m$  $5.0 \text{ ms}^{-1}$ $8.0 \text{ ms}^{-1}$
D	$2m$  $10.0 \text{ ms}^{-1}$ $4.0 \text{ ms}^{-1}$	$2m$  $6.0 \text{ ms}^{-1}$ $12.0 \text{ ms}^{-1}$