a. A 5 kg bowling ball moving at 8 m/s approaches a row of stationary balls lined up end to end in a ball return.

Comment on the likelihood of the following outcomes.

i. The incoming ball stops and one 5 kg ball leaves the row of stationary balls at a speed of 8 m/s.

ii. The incoming ball stops and two 5 kg balls leave the row of stationary balls at a speed of 4 m/s.

b. Two 5 kg bowling balls moving at 8 m/s approach a row of stationary balls lined up end to end in a ball return.

Comment on the likelihood of the following outcomes.

i. The incoming balls stop and two 5 kg balls leave the row of stationary balls at a speed of 8 m/s.

ii. The incoming balls stop and one 5 kg ball leaves the row of stationary balls at a speed of 16 m/s.