

Wk30 Momentum

name: _____

2 Total Momentum after

(1) total momentum

A 4 m/s \rightarrow $\leftarrow 6 \text{ m/s}$ B
 3 kg 2 kg

- AFTERWARDS:
- go left
 - go right
 - stop

(2) total momentum

80 kg 2 m/s \rightarrow $\leftarrow 3 \text{ m/s}$ 60 kg

- AFTERWARDS:
- go left
 - go right
 - stop

(3) total momentum

60 kg 2 m/s \rightarrow $\leftarrow 1 \text{ m/s}$ 90 kg

- AFTERWARDS:
- go left
 - go right
 - stop

Wk30 Momentum

name: _____

3 Total Momentum before

(1) total momentum

6 m/s \leftarrow A \rightarrow BOOM! \leftarrow B $\rightarrow 4 \text{ m/s}$
 3 kg 4 kg

- BEFOREHAND:
- was going left
 - was going right
 - was going nowhere

(2) total momentum

2 m/s \leftarrow 100 kg BOING! $\rightarrow 200 \text{ m/s}$ 1 kg

- BEFOREHAND:
- was going left
 - was going right
 - was going nowhere

(3) total momentum

4 m/s \leftarrow A \rightarrow BOOM! \leftarrow B $\rightarrow 8 \text{ m/s}$
 3 kg 2 kg

- BEFOREHAND:
- was going left
 - was going right
 - was going nowhere