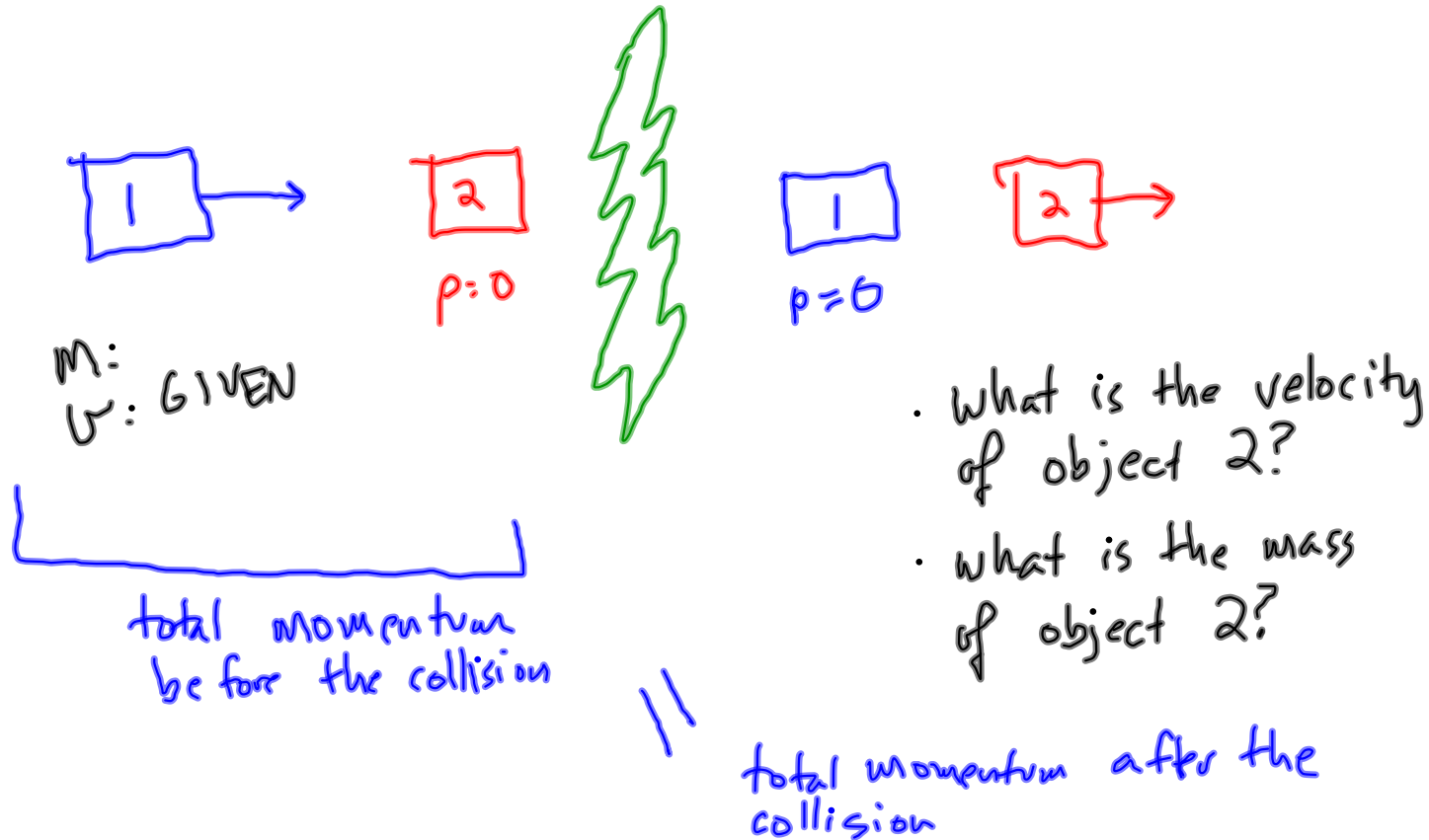


Conservation of Momentum Problems:



Breger is running: 1.5 m/s ; mass = 80 kg .

Bryon is standing still. BOOM! After, Bryon flies off 2 m/s . Mr. Breger STOPS.



a) What is Breger's p BEFORE? **5 STEPS**

① $v = 1.5 \text{ m/s}$ $m = 80 \text{ kg}$

② p

③ $p = m \cdot v$

④ $p = 80 \cdot 1.5$
 $= 120$

⑤ $p = 120 \frac{\text{kg} \cdot \text{m}}{\text{s}}$

b) What is Bryon's p AFTER? *** NO 5 STEPS! ***
 $120 \frac{\text{kg} \cdot \text{m}}{\text{s}}$

c) What is Bryon's mass? **5 STEPS**

① $p = 120 \frac{\text{kg} \cdot \text{m}}{\text{s}}$ $v = 2 \frac{\text{m}}{\text{s}}$

② m

③ $m = p \div v$

④ $m = 120 \div 2$
 $= 60$

⑤ $m = 60 \text{ kg}$

SCRANNY. ↗
(Bryon Bo don)