Permission slips for Evergreen field trip: Due by Friday if you need a scholarship!

Momentum Problems:

$$p = m \cdot v$$

units:

$p \rightarrow \frac{kg \cdot m}{s}$ +dir

$m \rightarrow kg$

$v \rightarrow \frac{m}{s}$ +dir

S.O.N. has m of 87 kg.
Has a p of 762.2 $\frac{kg \cdot m}{s}$.
What is v?

(1a) $m = 87\ kg$, $p = 762.2\ \frac{kg \cdot m}{s}$

(1b) v

(2) $p = m \cdot v$

(3) $762.2\ \frac{kg \cdot m}{s} = 87\ kg \cdot v$

(4) $\frac{762.2}{87} = \frac{87 \cdot v}{87}$

$v = \boxed{8.76}\ \frac{m}{s}$ vp

(5) $p = m \cdot v$

$p = 87 \cdot 8.76$

$= 762.12$ ✓