P #D

Ch 6

$m = .050\ kg$
$F = 130\ N$
$t = .025\ sec$

a) $\Delta p = F \cdot t$
$= (130\ N)(.025\ sec)$

$\boxed{\Delta p = 3.25\ Ns}$

b) $\Delta p = m \cdot \Delta v$

$(3.25\ N\cdot s) = (.05\ kg) \cdot \Delta v$

$\boxed{\Delta v = 65\ m/s}$