P # E

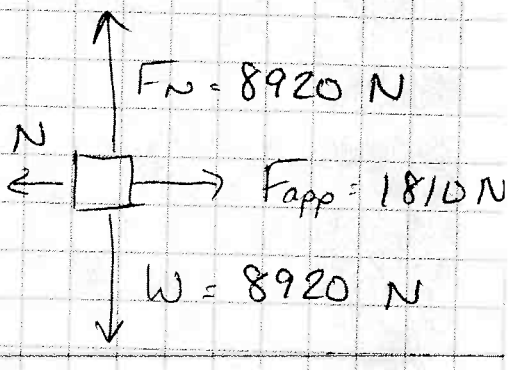
Ch 4 Worksheet

a) $m = 910\ kg$
$g = 9.8\ m/s^2$

$W = m \cdot g$
$= (910\ kg)(9.8\ m/s^2)$

$\boxed{W = 8920\ N}$

b) $F_{app} = 1810\ N$
$F_f = 720\ N$
$W = 8918\ N = F_{normal}$



c) $F_{net} = F_{app} - F_f$

$= 1810\ N - 720\ N$

$\boxed{F_{net} = 1090\ N}$

d) $F_{net} = 1090\ N$
$m = 910\ kg$

$F_{net} = m \cdot a$

$(1090\ N) = (910\ kg) \cdot a$

$\boxed{a = 1.2\ m/s^2}$