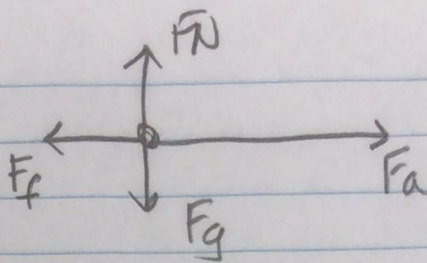


5. $W = F_g = 400\text{ N}$
 $\mu = .5$
 $a = 1.3\text{ m/s}^2$



a. $F_f = \mu F_N$

$F_f = .5(400)$
 $F_f = 200\text{ N}$

b. $F_{\text{net}} = ma$
 $F_{\text{net}} = 41(1.3)$
 $F_{\text{net}} = 53\text{ N}$

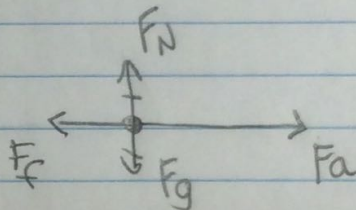
$F_g = mg$
 $400 = m(9.8)$
 $41\text{ kg} = m$

c. $F_{\text{net}} = F_f + F_a$

$53 = -200 + F_a$
 $+200 \quad +200$

$253\text{ N} = F_a$

6. $F_g = 600\text{ N}$
 $F_a = 400\text{ N}$
 $\mu = ?$
 $a = 1.3\text{ m/s}^2$



$F_g = mg$
 $600 = m(9.8)$
 $61.2 = m$

$F_{\text{net}} = ma$
 $= 61(1.3)$
 $= 79\text{ N}$

$F_{\text{net}} = F_f + F_a$
 $79 = F_f + 400$
 $-400 \quad -400$

$321 = F_f$
 $= \mu F_N$

$321 = \mu(600)$

$.53 = \mu$