

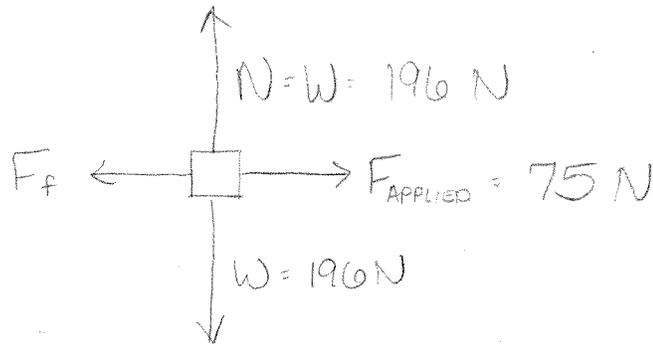
P #35

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$m = 20 \text{ kg}$
 $W = 196 \text{ N}$

$F_{\text{applied}} = 75 \text{ N}$

$\mu_s = ?$
 $\mu_k = ?$



When the crate is set in motion... $F_f = F_A = 75 \text{ N}$

$F_f = 75 \text{ N}$
 $N = 196 \text{ N}$

$F_f = \mu_s \cdot N$

$(75 \text{ N}) = \mu_s \cdot (196 \text{ N})$

$\mu_s = .38$

As the crate is moving... $F_f = F_A = 60 \text{ N}$

$F_f = 60 \text{ N}$
 $N = 196 \text{ N}$

$F_f = \mu_k \cdot N$

$60 \text{ N} = \mu_k \cdot (196 \text{ N})$

$\mu_k = .31$

