

constant vel

$F_{net} = 0N$
 $\mu_k =$
 $F_{fc} = 15N$
 $F_n =$

X	Y
$F_{net} = F_{app} + F_f$	$F_{net} = F_n + F_g$
$0 = F_{app} + F_f$	$0 = \quad \quad 40$
$0 = 15N + \mu_k F_n$	$F_n = 40N$
$-15N = \mu_k (40)$	
$\frac{-40}{40} = \frac{\mu_k}{1}$	
$\mu_k = .375$	

Dec 7-8:04 AM

$\mu_k =$

X	Y
$F_{net} = 0$	$F_g = mg$
$0 = F_{app} + F_f$	$9800N$
$0 = F_{app} + (\mu_k F_n)$	
$-450N = -(\mu_k 9800N)$	
$\frac{-9800}{-9800} = \frac{\mu_k}{1}$	
$\mu_k = .05$	

Dec 7-8:15 AM

mass?

$\mu_s = 0.15$

X	Y
$0 = F_{app} + F_g$	$F_{net} = F_n + F_g$
$0 = 24 + (\mu_s F_n)$	$0 = F_n + F_g$
$0 = 24 - (.15mg)$	$0 = F_n + (mg)$
$+24 = +(.15mg)$	$F_n = mg$
$\frac{24}{.15g} = \frac{.15mg}{.15g}$	$m = \frac{24}{.15(9.8)}$
	$m = 16kg$

Dec 7-8:21 AM

constant vel

$\mu_k = ?$

X	Y
$F_{net} = F_{app} - F_f$	$0 = F_n - F_g$
$0 = 15 - (\mu_k F_n)$	$0 = F_n - F_g$
$+15 = +(\mu_k F_n)$	
$\frac{15}{40} = \frac{\mu_k (40)}{40}$	
$\mu_k = .375$	

Dec 7-8:46 AM

μ_k

X	Y
$F_{net} = F_a - F_f$	$0 = F_n - F_g$
$0 = 950 - (\mu_k F_n)$	$+F_n = F_g$
$+950 = \mu_k F_n$	$F_n = mg$
$950 = \mu_k (2000(9.8))$	
$950 = \mu_k (19600)$	
$\mu_k = .05$	

Dec 7-9:03 AM

mass?

$\mu_s = .15$

$0 = F_{app} - F_f$	
$0 = 24N - F_f$	
$24N = F_f$	
$24N = \mu_s F_n$	
$\frac{24N}{.15g} = \frac{\mu_s mg}{.15g}$	$m = \frac{24N}{.15(9.8)}$
	$m = 16kg$

Dec 7-9:09 AM