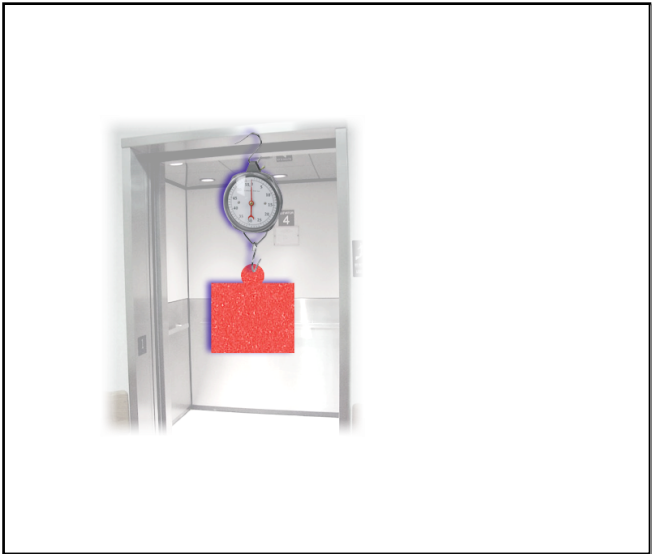


As a group
 $F = ma$
 $333.2 = (50 + 34)a$
 $\bar{a} = 3.96 \text{ m/s}^2$

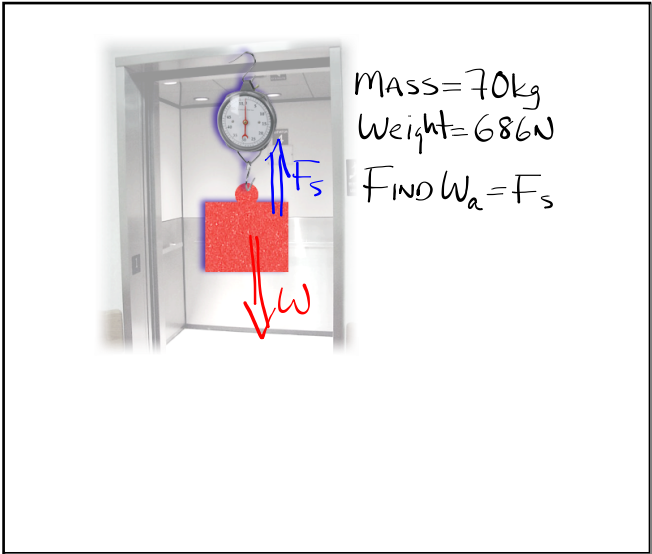
then ISOLATE

50 TENSION
 $F = ma$
 $T = 50(3.96)$
 $= 198 \text{ N}$

or ISOLATE
 $F = ma$
 $333.2 - T = 34(3.96)$
 $T = 198 \text{ N}$



Lined writing area consisting of 20 horizontal lines.



$$a) v=0$$

$$F=ma$$

$$F_s - W = 70(0)$$

$$F_s - 686 = 0$$

$$F_s = 686\text{N}$$

$$b) a = 5.2\text{m/s}^2$$

$$F=ma$$

$$F_s - 686 = 70(5.2)$$

$$F_s = 1050\text{N}$$

$$c) v = 20\text{m/s}$$

$$F_s = 686\text{N}$$

$$d) a = -3.5\text{m/s}^2$$

$$F=ma$$

$$F_s - 686 = m(-3.5)$$

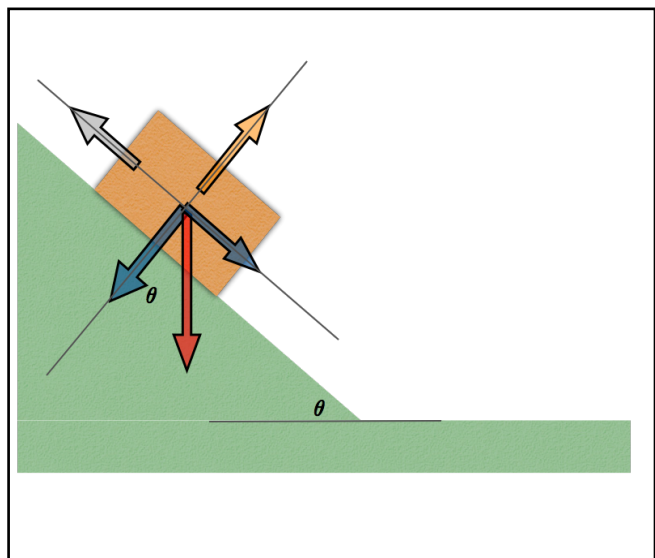
$$F_s = 441\text{N}$$

e) FREE-FALL

$$F=ma$$

$$F_s - 686 = 70(-9.8)$$

$$F_s = 0$$



$M = 65\text{kg}$
 $\theta = 42^\circ$
 $F_T = 80\text{N}$

$a = ?$
 $T_{\text{max}} = ?$
 10m

$F = ma$
 $426 - 80 = 65(a)$
 $a = 5.3\text{m/s}^2$

$x = x_0 + v_0t + \frac{1}{2}at^2$
 $10 = 0 + 0 + \frac{1}{2}(5.3)t^2$
 $t = 1.94\text{s}$

80N, 473, 426, 637N, 42°, θ