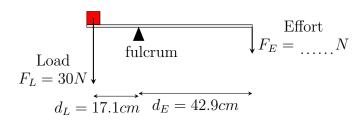
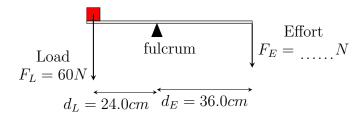
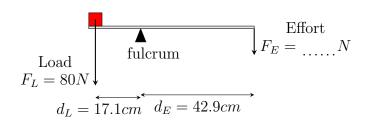
(1)



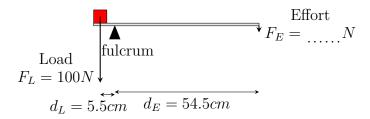
(2)



(3)



(4)



(5)

Load Fulcrum 
$$F_E = \dots N$$

$$d_L = 20.0cm d_E = 40.0cm$$

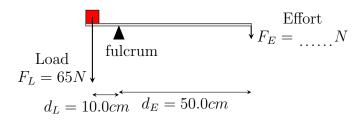
$$F_E \times d_E = F_L \times d_L$$

$$F_E = \frac{F_L \times d_L}{d_E}$$

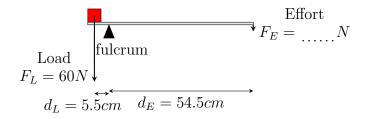
$$F_E = \frac{\dots \times \dots}{\dots}$$

$$F_E = \dots N$$

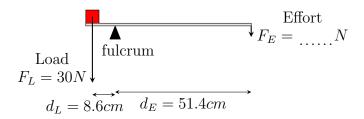
(6)



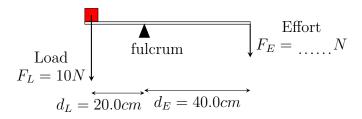
(7)



(8)



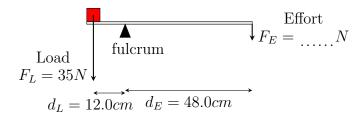
(9)



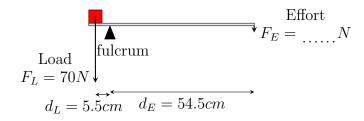
(10)

Load Fulcrum 
$$F_L = 40N \downarrow d_L = 6.7cm \quad d_E = 53.3cm$$

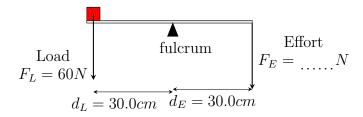
(11)



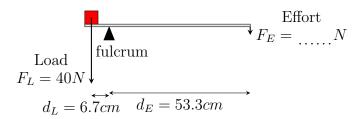
(12)



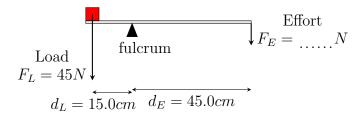
(13)



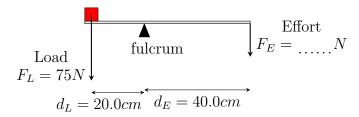
(14)



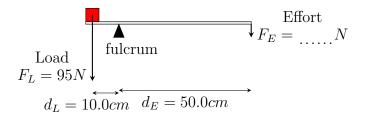
(15)



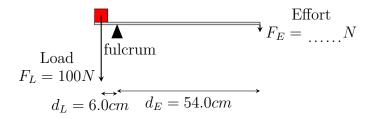
(16)



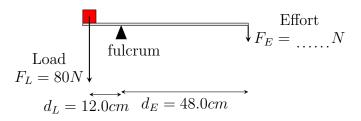
(17)



(18)



(19)



(20)

Load fulcrum 
$$F_E = 75N$$

$$d_L = 30.0cm$$

$$d_E = 30.0cm$$
Effort  $d_E = 10.0cm$ 

$$F_E \times d_E = F_L \times d_L$$

$$F_E = \frac{F_L \times d_L}{d_E}$$

$$F_E = \frac{\dots \times \dots}{\dots}$$

$$F_E = \dots N$$