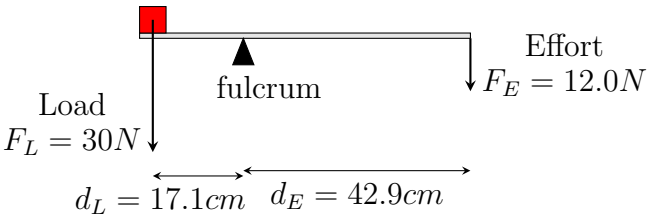
Name: _____ **Date:** _____

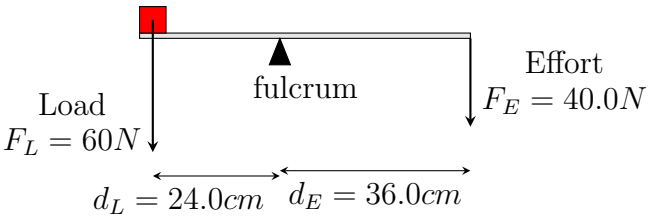
Levers: Answers

(1)



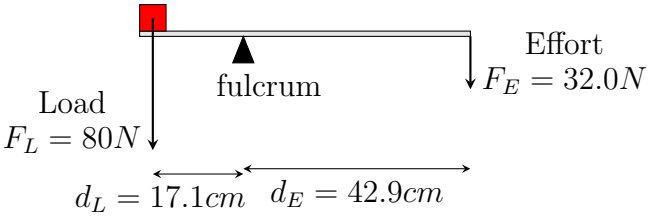
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{30 \times 17.1}{42.9}$$
$$F_E = 12.0N$$

(2)



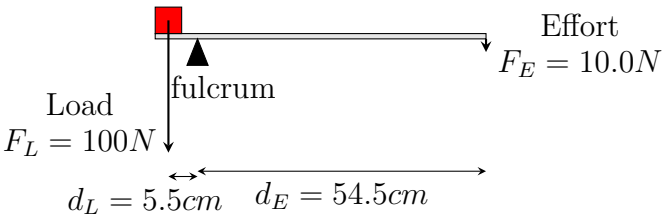
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{60 \times 24.0}{36.0}$$
$$F_E = 40.0N$$

(3)



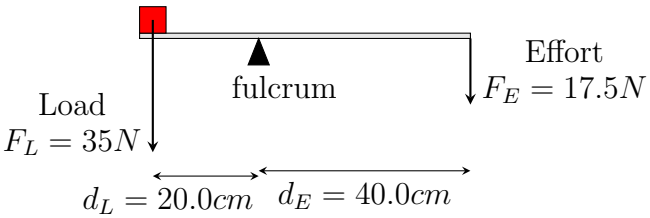
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{80 \times 17.1}{42.9}$$
$$F_E = 32.0N$$

(4)



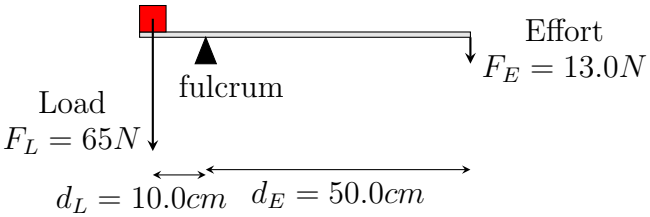
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{100 \times 5.5}{54.5}$$
$$F_E = 10.0N$$

(5)



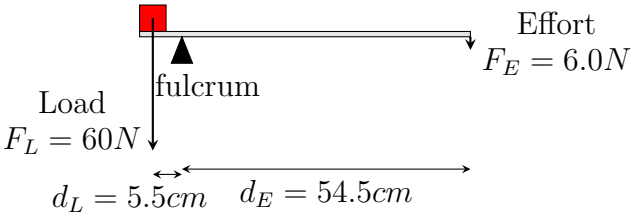
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{35 \times 20.0}{40.0}$$
$$F_E = 17.5N$$

(6)



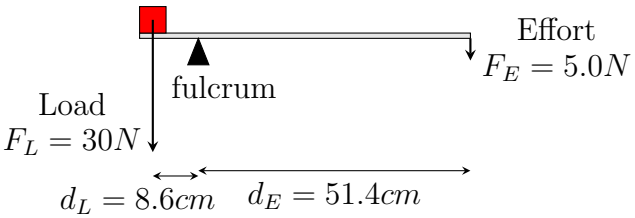
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{65 \times 10.0}{50.0}$$
$$F_E = 13.0N$$

(7)



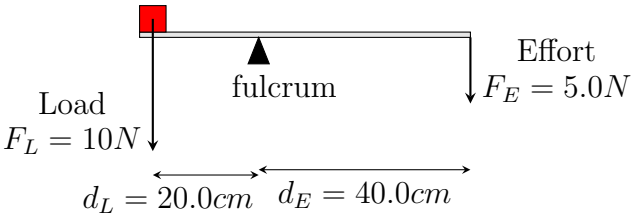
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{60 \times 5.5}{54.5}$$
$$F_E = 6.0N$$

(8)



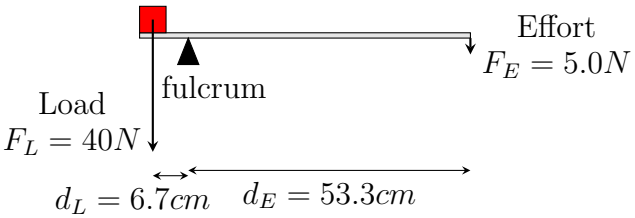
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{30 \times 8.6}{51.4}$$
$$F_E = 5.0N$$

(9)



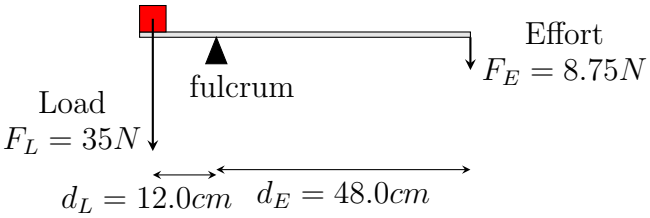
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{10 \times 20.0}{40.0}$$
$$F_E = 5.0N$$

(10)



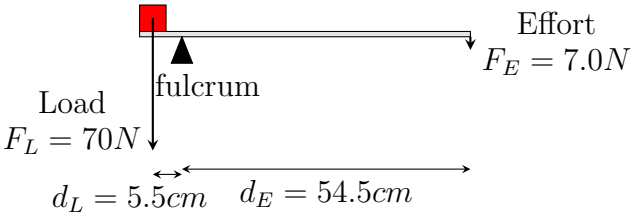
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{40 \times 6.7}{53.3}$$
$$F_E = 5.0N$$

(11)



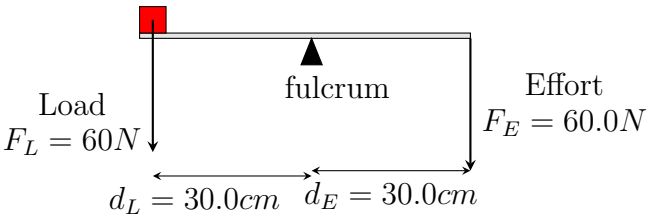
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{35 \times 12.0}{48.0}$$
$$F_E = 8.75N$$

(12)



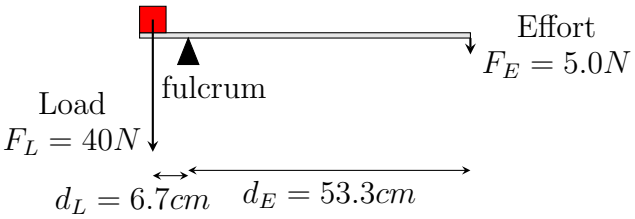
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{70 \times 5.5}{54.5}$$
$$F_E = 7.0N$$

(13)



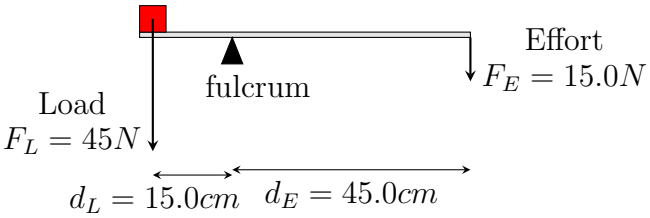
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{60 \times 30.0}{30.0}$$
$$F_E = 60.0N$$

(14)



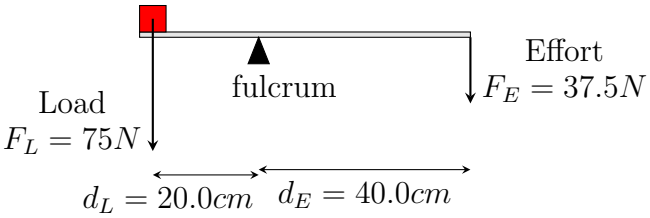
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{40 \times 6.7}{53.3}$$
$$F_E = 5.0N$$

(15)



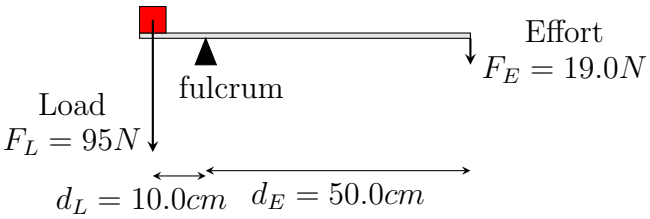
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{45 \times 15.0}{45.0}$$
$$F_E = 15.0N$$

(16)



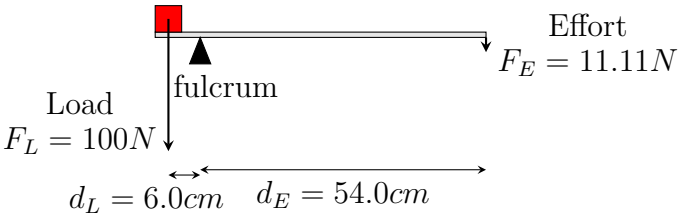
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{75 \times 20.0}{40.0}$$
$$F_E = 37.5N$$

(17)



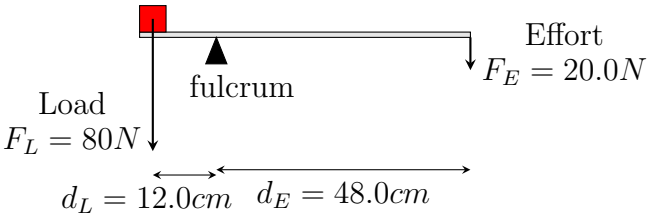
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{95 \times 10.0}{50.0}$$
$$F_E = 19.0N$$

(18)



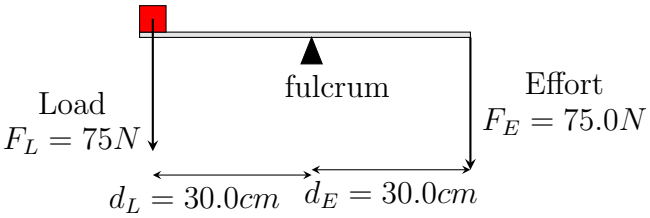
$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{100 \times 6.0}{54.0}$$
$$F_E = 11.11N$$

(19)



$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{80 \times 12.0}{48.0}$$
$$F_E = 20.0N$$

(20)



$$F_E \times d_E = F_L \times d_L$$
$$F_E = \frac{F_L \times d_L}{d_E}$$
$$F_E = \frac{75 \times 30.0}{30.0}$$
$$F_E = 75.0N$$