First Class Levers

Load
$F_L = 10.0N$

fulcrum

$d_L = 10.0cm$ $d_E = 50.0cm$

Effort
$F_E = 2.0N$

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

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

$$F_E = \frac{10.0 \times 10.0}{50.0}$$

$$F_E = 2.0N$$