First Class Lever mechanical advantage

Load
$$F_L = 10N$$

Effort $F_E = 2N$
 m

$$m.a. = \frac{F_L}{F_E} = \frac{10N}{2N} = 5$$

$$\begin{array}{c}
\text{Load} \\
F_L = 10N
\end{array}$$

 $d_L = 10cm$ $d_E = 50cm$

$$m.a. = \frac{d_E}{d_L} = \frac{50cm}{10cm} = 5$$