

$b =$ Beschleunigung im Schwerpunkt

$$b \times (L_{\text{eog}} - L_{\text{dp}}) = a \times (L_{\text{F}} - L_{\text{dp}})$$

$$\Rightarrow b = \frac{a \times (L_{\text{F}} - L_{\text{dp}})}{L_{\text{eog}} - L_{\text{dp}}}$$

$$F \times (L_{\text{F}} - L_{\text{dp}}) = b \times m \times (L_{\text{eog}} - L_{\text{dp}})$$

$$\Rightarrow F = \frac{b \times m \times (L_{\text{eog}} - L_{\text{dp}})}{L_{\text{F}} - L_{\text{dp}}}$$