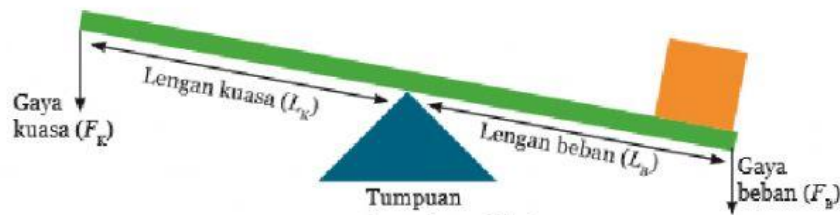


Nama/Kelas =

Tuas/Pengungkit



Sumber: Dok. Kemdikbud

Gambar 2.8 Posisi Lengan Kuasa dan Lengan Beban

Karena syarat kesetimbangan tuas adalah $F_B \times L_B = F_K \times L_K$

dan $KM = \frac{F_B}{F_K}$, maka $KM_{\text{tuas}} = \frac{L_K}{L_B}$

dengan :

KM = keuntungan mekanis

F_B = gaya beban

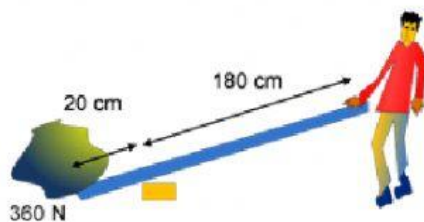
F_K = gaya kuasa

L_K = lengan kuasa

L_B = lengan beban

Latihan Soal !

Soal :



Diketahui :

FB = N

LB = cm

LK = cm

Ditanya :

FK = ?

Jawab :

Rumus

$$FB \times \dots = FK \times \dots$$

$$FK = \frac{FB \times \dots}{\dots}$$

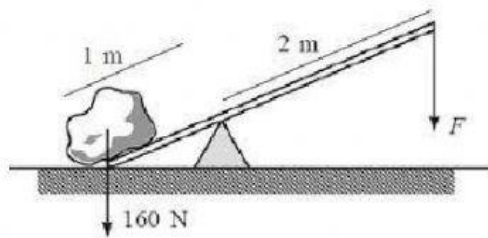
Masukkan Angka

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

Hasil

$$FK = \dots \text{ N}$$

Soal :



Diketahui :

FB = N

LB = m

LK = m

Ditanya :

FK = ?

Jawab :

Rumus

$$FB \times \dots = FK \times \dots$$

$$FK = \frac{FB \times \dots}{\dots}$$

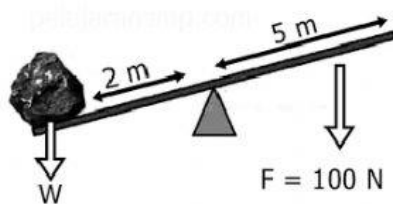
Masukkan Angka

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

Hasil

$$FK = \dots N$$

Soal :



Diketahui :

FK = N

LB = m

LK = m

Ditanya :

FB/W = ?

Jawab :

Rumus

$$FB \times \dots = FK \times \dots$$

$$FB = \frac{FK \times \dots}{\dots}$$

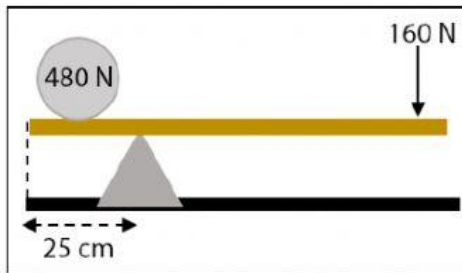
Masukkan Angka

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

Hasil

$$FB = \dots N$$

Soal :



Diketahui :

FB = N

FK = N

LB = cm

Ditanya ?

LK = cm

Jawab :

Rumus

$$\boxed{\text{FB}} \times \boxed{\dots\dots} = \boxed{\dots\dots} \times \boxed{\text{LK}}$$

$$\boxed{\text{LK}} = \frac{\boxed{\text{FB}} \times \boxed{\dots\dots}}{\boxed{\dots\dots}}$$

Masukkan Angka

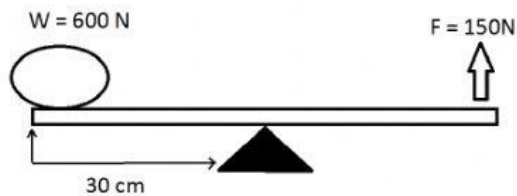
$$\boxed{\text{LK}} = \frac{\boxed{\dots\dots} \times \boxed{\dots\dots}}{\boxed{\dots\dots}}$$

Hasil

$$\boxed{\text{LK}} = \boxed{\dots\dots} \text{ cm}$$

$$= \boxed{\dots\dots} \text{ m}$$

Soal :



Diketahui :

FB/W = N

FK = N

LB = cm

Ditanya ?

LK = cm

Jawab :

Rumus

$$\boxed{\text{FB}} \times \boxed{\dots\dots} = \boxed{\dots\dots} \times \boxed{\text{LK}}$$

$$\boxed{\text{LK}} = \frac{\boxed{\text{FB}} \times \boxed{\dots\dots}}{\boxed{\dots\dots}}$$

Masukkan Angka

$$\boxed{\text{LK}} = \frac{\boxed{\dots\dots} \times \boxed{\dots\dots}}{\boxed{\dots\dots}}$$

Hasil

$$\boxed{\text{LK}} = \boxed{\dots\dots} \text{ cm}$$

$$= \boxed{\dots\dots} \text{ m}$$