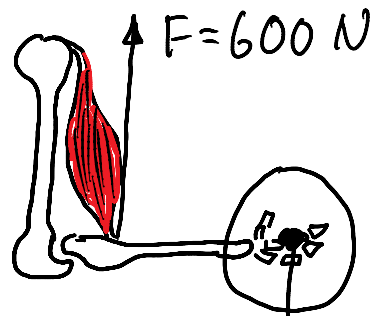
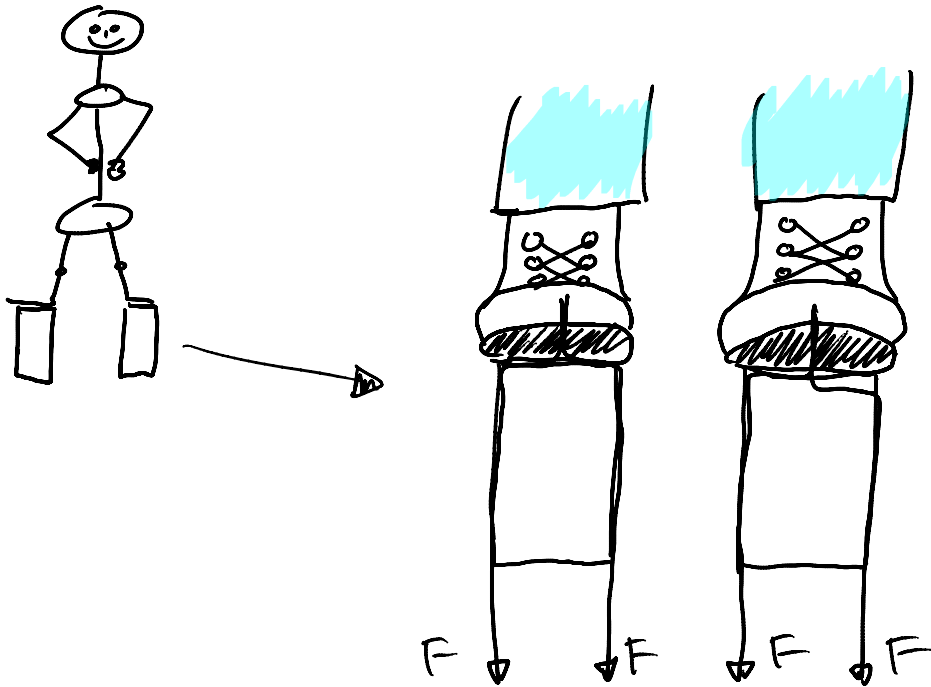


Krafter

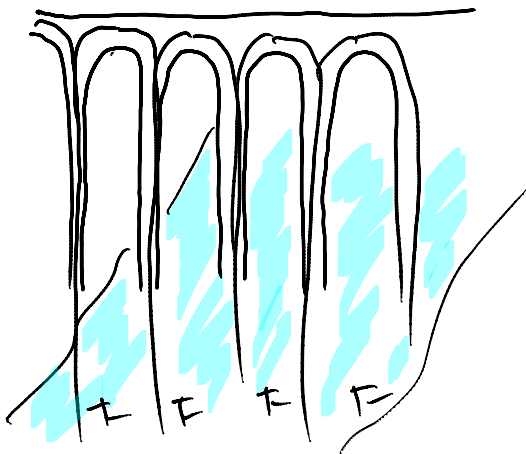
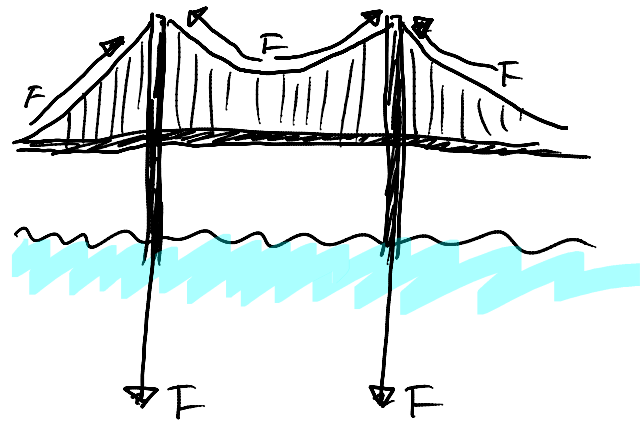


F = Force = kraft

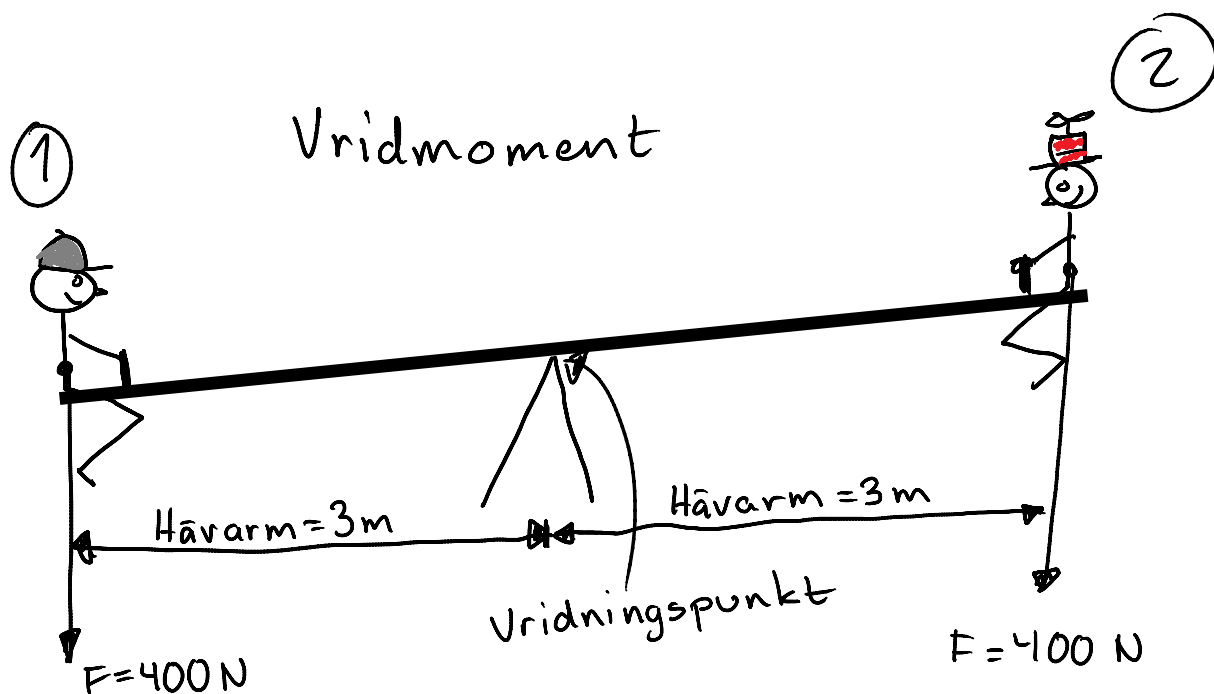
$F = 100 \text{ N}$ (N = Newton)



den 31 januari 2011
10:06



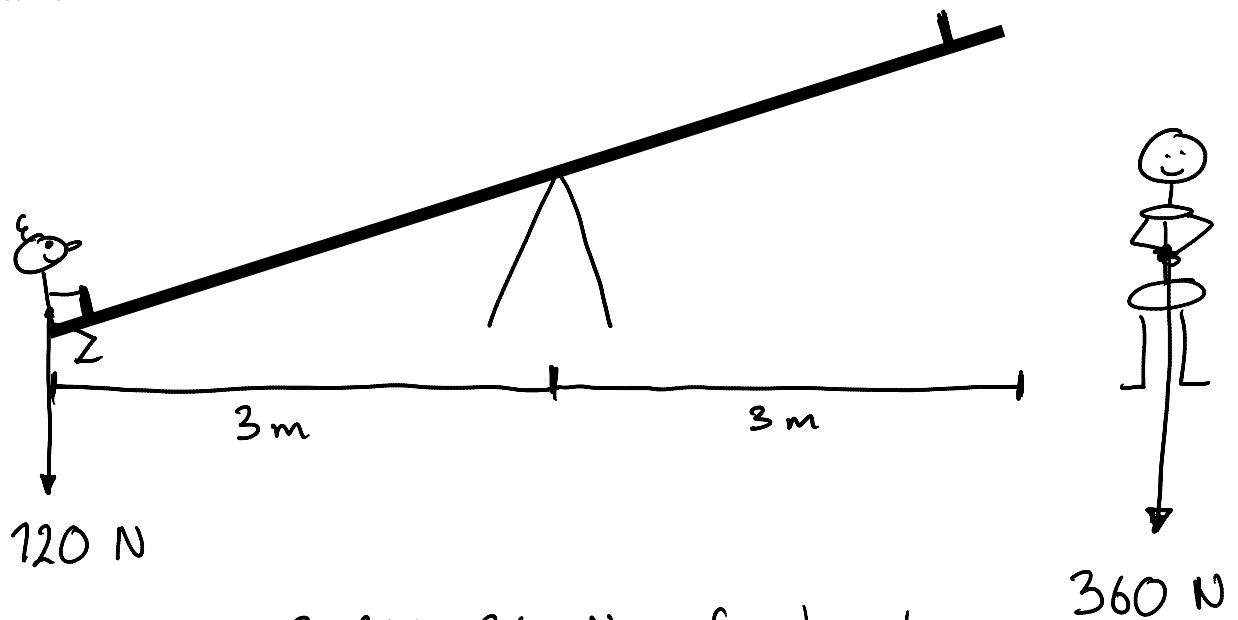
	Jorden	Månen	Jupiter
Jerkers massa	80 kg	80 kg	80 kg
Jerkes tyngd	800 N	125 N	8000 N



Vridmoment = Kraften \cdot hävarmen

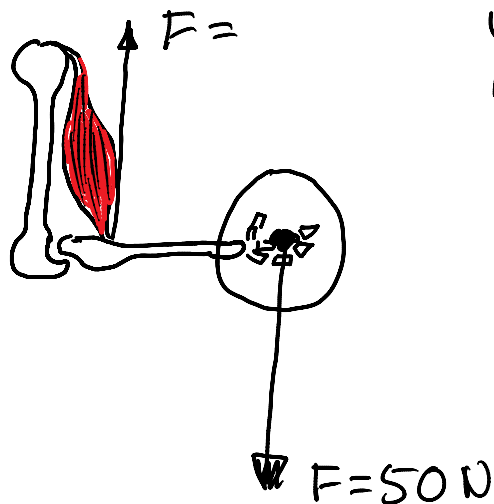
① $400 \cdot 3 = 1200$ Newtonmeter (Nm)

② $400 \cdot 3 = 1200$ Nm



Uridmoment = $3 \cdot 120 = 360 \text{ Nm}$ för barnet
 $1 \cdot 360 = 360 \text{ Nm}$ för barnvakten

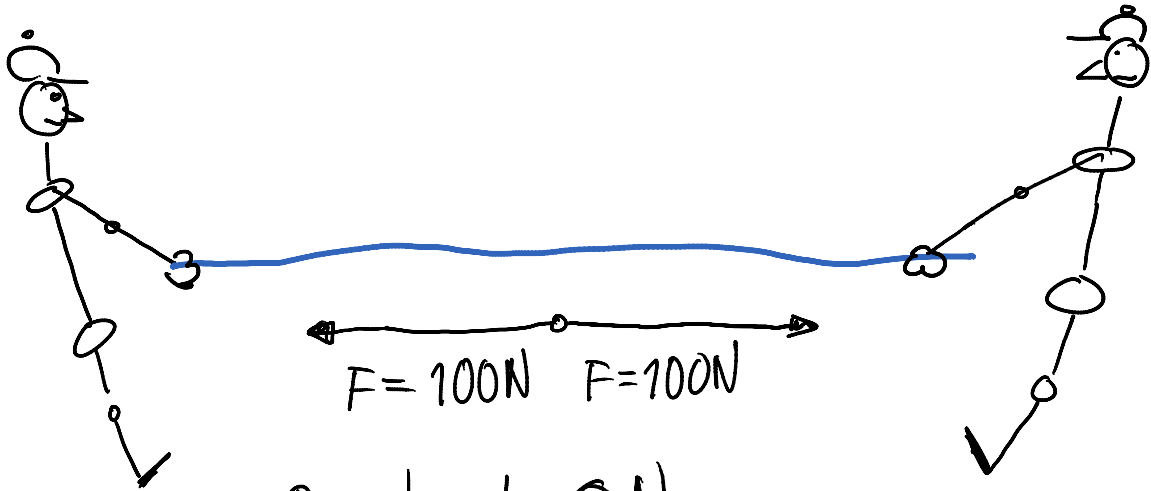
Mimi's arm



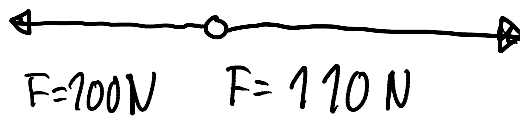
Underarmen = 28 cm
Muskelfäste = 6 cm

Uridmoment underarm = $50 \cdot 0,28 = 14 \text{ Nm}$
muskel = $x \cdot 0,06 = 14 \text{ Nm}$
 $x = \frac{14}{0,06} = 233 \text{ N}$

Sam- och motverkande krafter



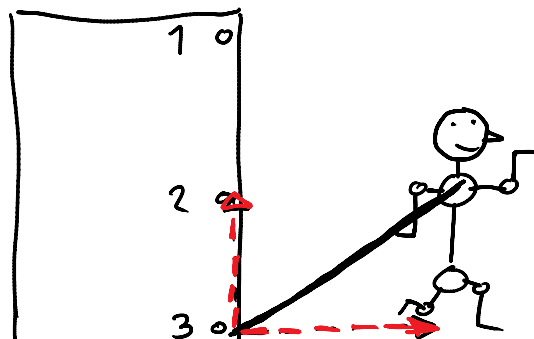
Resultant = 0N
"resultat"



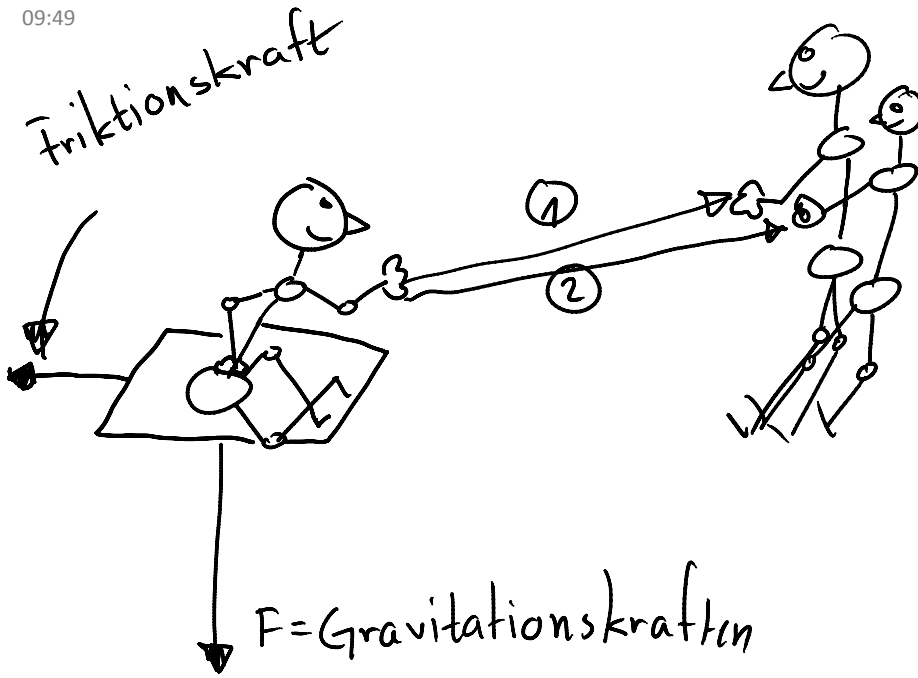
Resultant = 10N , riktad åt höger

3 saker man måste känna till om en kraft:

1. Kraftens storlek
2. Kraftens riktning
3. Kraftens angreppspunkt



den 14 mars 2011
09:49



$$F_1 = 200 \text{ N}$$

$$F_2 = 250 \text{ N}$$

$$\text{Resultanten} = 450 \text{ N}$$