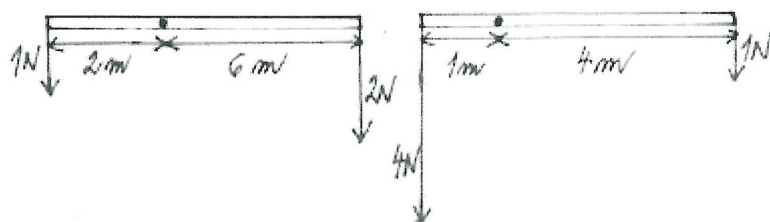
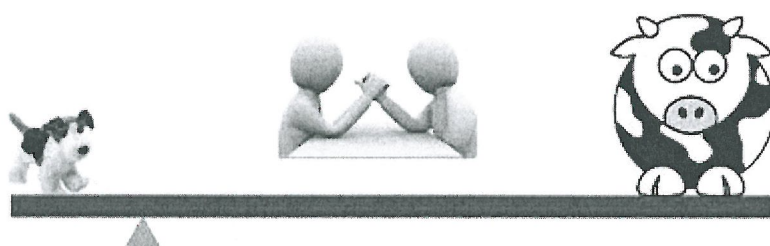
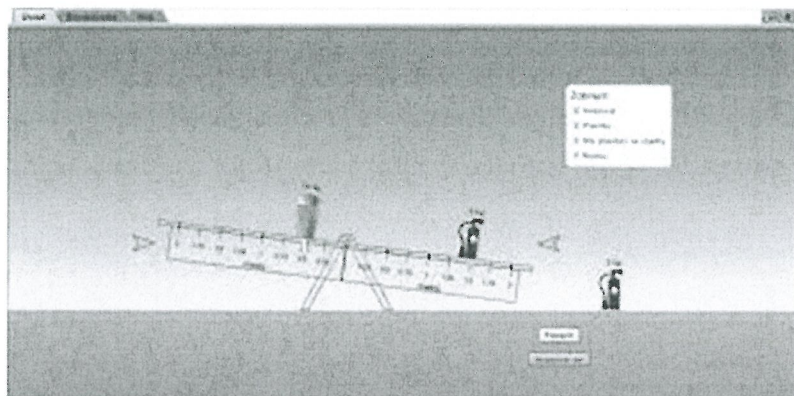
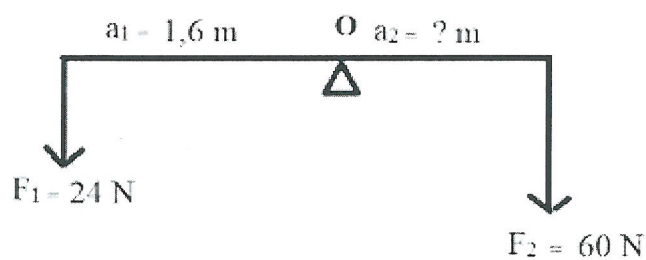


F₇



Rovnováha na páce nastane, když se moment síly na jedné straně páky rovná momentu síly na druhé straně páky!!!!!!.....umět další zákon



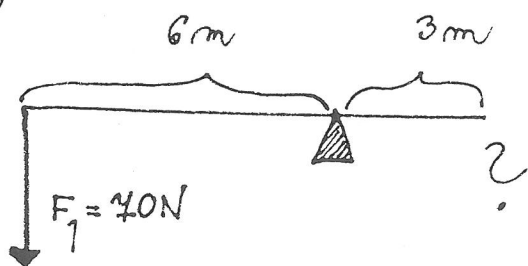
vzorec: $F_1 \cdot a_1 = F_2 \cdot a_2$

.....odkazuji na video na youtube rovnováha na páce učení se Zuzanou....super názorné video pro výpočet příkladů

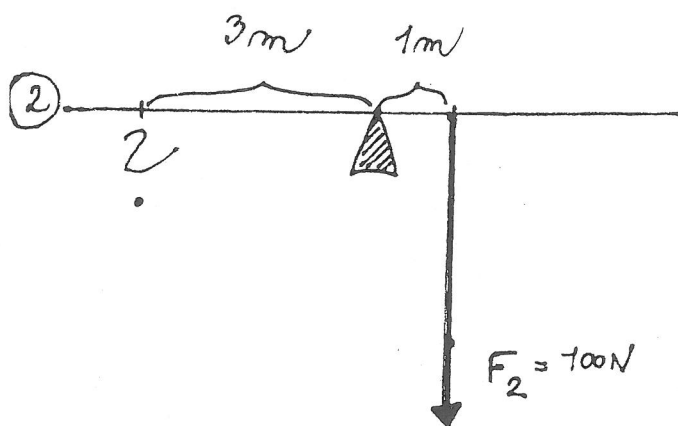
ROVNOVÁŽNÁ POLOHA PÁKY

①

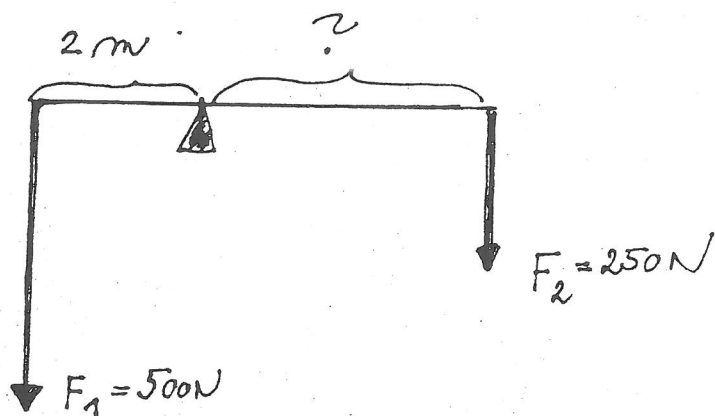
①



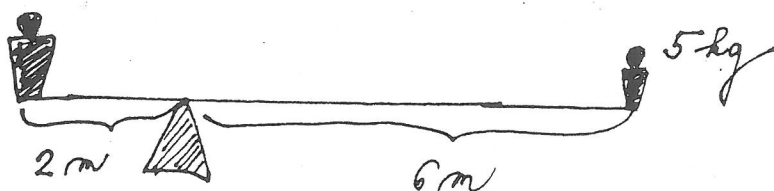
②



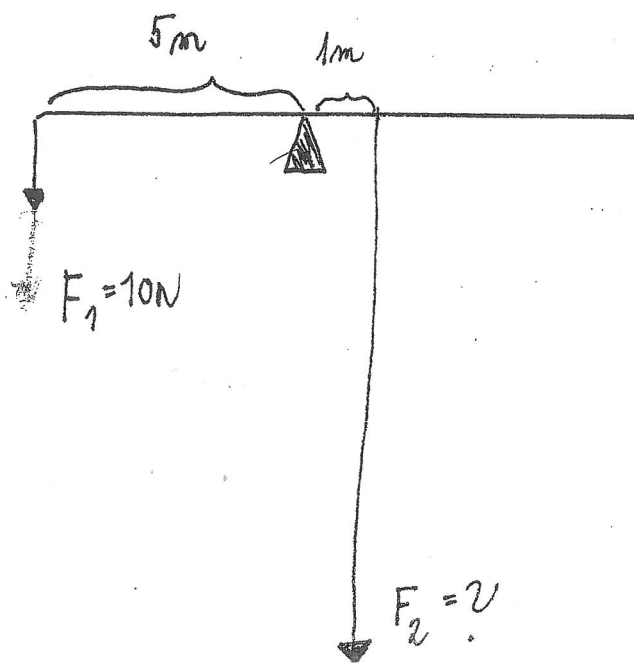
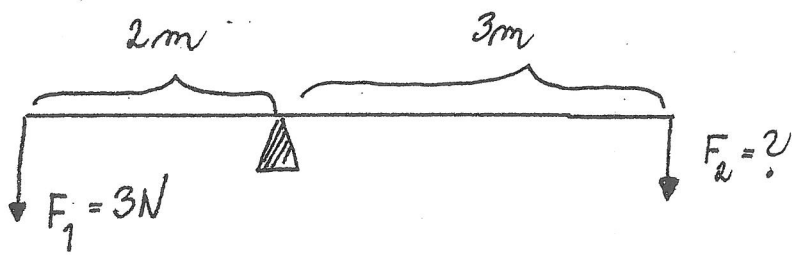
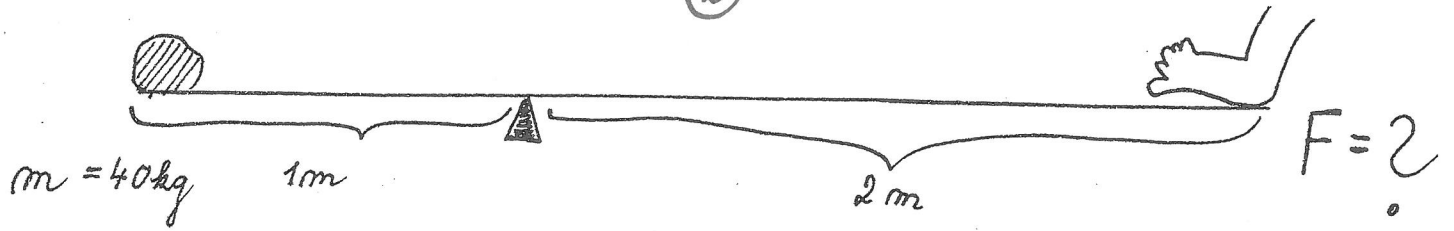
③



④

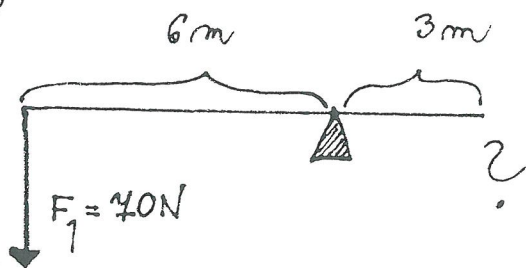


2



①

①



$$a_1 = 6 \text{ m/s}^2 \quad F_1 = 70 \text{ N}$$

$$a_2 = 3 \text{ m/s}^2 \quad F_2 = ?$$

$$F_1 \cdot a_1 = F_2 \cdot a_2$$

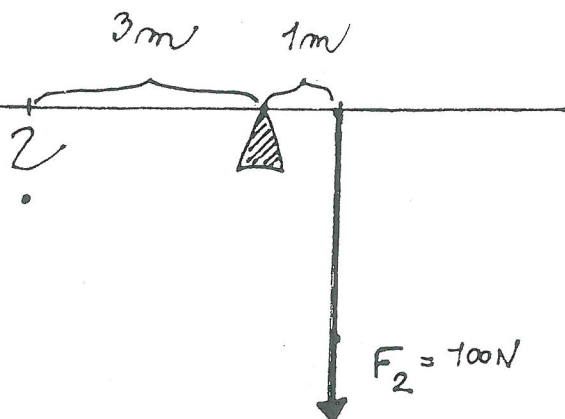
$$70.6 = 3 \cdot F_2$$

$$420 = 3 \cdot F_2$$

$$F_2 = 420 : 3$$

$$\underline{\underline{F_2 = 140\text{ N}}}$$

②



$$a_1 = 3 \text{ m/s}^2 \quad F_1 = 2$$

$$a_2 = 1 \text{ m/s}^2 \quad F_2 = 100 \text{ N}$$

$$F_1 \cdot a_1 = F_2 \cdot a_2 \checkmark$$

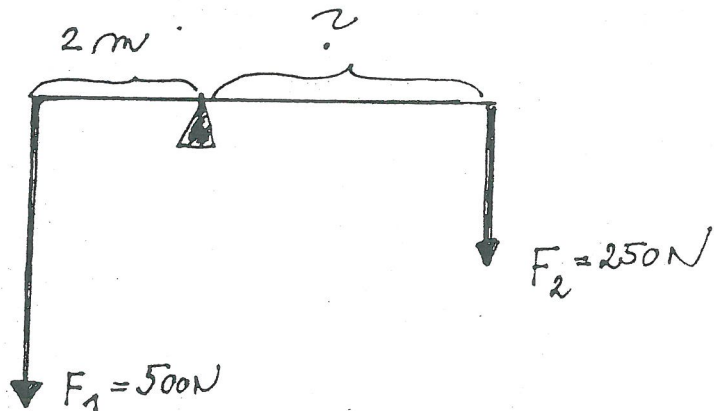
$$F_1 \cdot 3 = 1 \cdot 100$$

$$F_1 \cdot 3 = 100$$

$$F_1 = 100 : 3$$

$$\underline{F_7 = 33\text{ N}}$$

③



$$F_1 = 500 \text{ N} \quad a_1 = 2 \text{ m/s}^2$$

$$F_2 = 250 \text{ N} \quad a_2 = ?$$

$$F_1 \cdot a_1 = F_2 \cdot a_2$$

$$500 \cdot 2 = 250 \cdot a \quad \checkmark$$

$$1000 = 250 \cdot a_c$$

$$a_2 = 1000 : 250$$

$a_2 = 4 \text{ m}$

4. 

$$a_1 = 2 \text{ m}$$

$$F_1 = 2$$

$$a_2 = 6 \text{ m/s}^2$$

$$F_2 = 50 \text{ N}$$

$$F_1 \cdot a_1 = F_2 \cdot a_2$$

$$F_1 \cdot g = 50.6$$

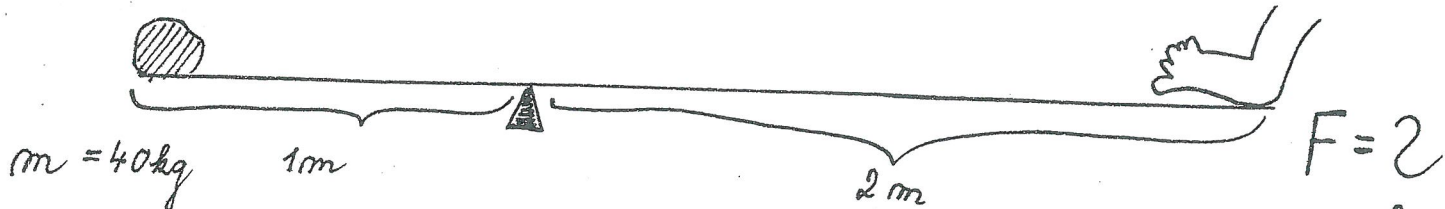
$$F_2 \cdot 2 = 300$$

$$F_1 = 300 : 2 \text{ N}$$

$$F_1 = 150 \text{ N}$$

15 kg 

(2)



$m = 40 \text{ kg}$
 $F_1 = 400 \text{ N}$
 $a_1 = 1 \text{ m}$

$$F_1 \cdot a_1 = F_2 \cdot a_2$$

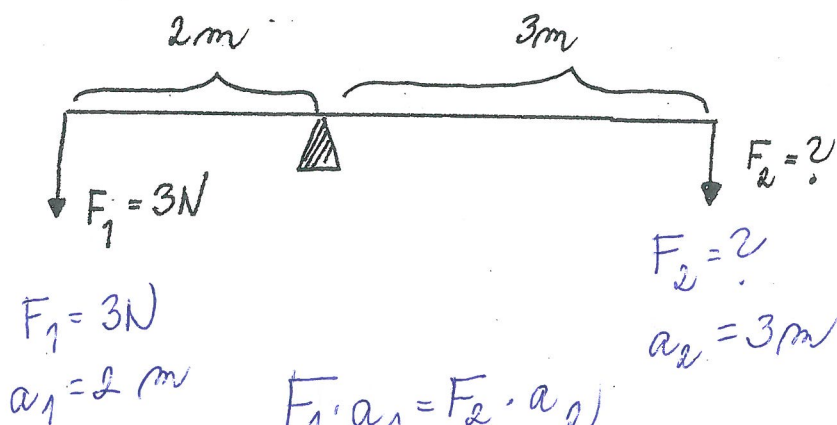
$$400 \cdot 1 = F_2 \cdot 2$$

$$400 = F_2 \cdot 2$$

$$F_2 = 400 : 2$$

$$F_2 = 200 \text{ N}$$

$F_2 = 2$
 $a_2 = 2 \text{ m}$



$F_1 = 3 \text{ N}$
 $a_1 = 2 \text{ m}$

$F_2 = 2$
 $a_2 = 3 \text{ m}$

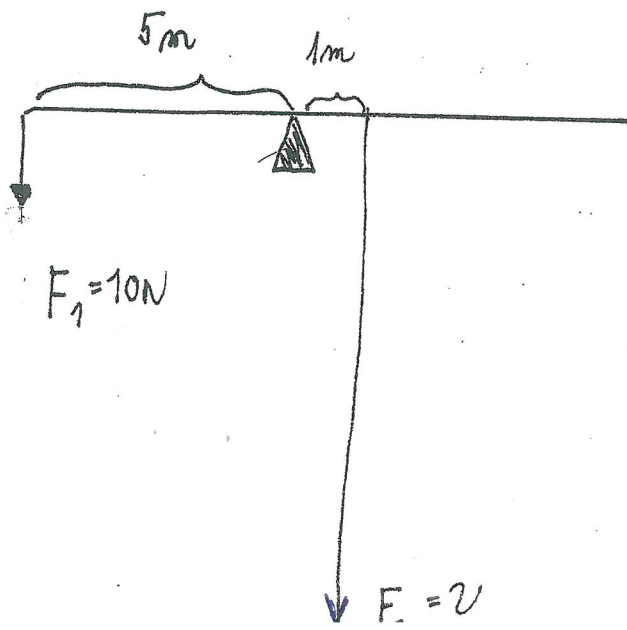
$$F_1 \cdot a_1 = F_2 \cdot a_2$$

$$3 \cdot 2 = F_2 \cdot 3$$

$$6 = F_2 \cdot 3$$

$$F_2 = 6 : 3$$

$F_2 = 2 \text{ N}$



$F_1 = 10 \text{ N}$

$F_1 = 10 \text{ N}$
 $F_2 = 2$

$a_1 = 5 \text{ m}$
 $a_2 = 1 \text{ m}$

$$F_1 \cdot a_1 = F_2 \cdot a_2$$

$$10 \cdot 5 = F_2 \cdot 1$$

$$50 \text{ N} = F_2$$

... ani pialarke na to, n' jde !
 leas i ploskani, TO JE DOBRE !
 ... ale pomiceni a drozhen by nile !
 vnit i sprit !
 vechom mas puc-kov !