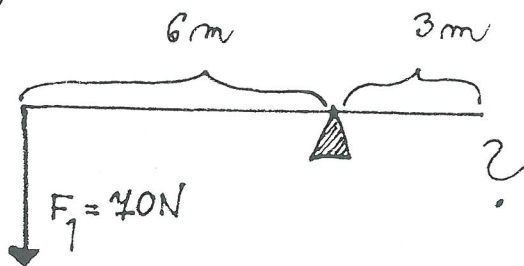


F_g - rovnováha 😊

ROVNOVÁŽNÁ POLOHA PÁKY

①



$$a_1 = 6\text{ m} \quad F_1 = 40\text{ N}$$

$$a_2 = 3\text{ m} \quad F_2 = ?$$

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

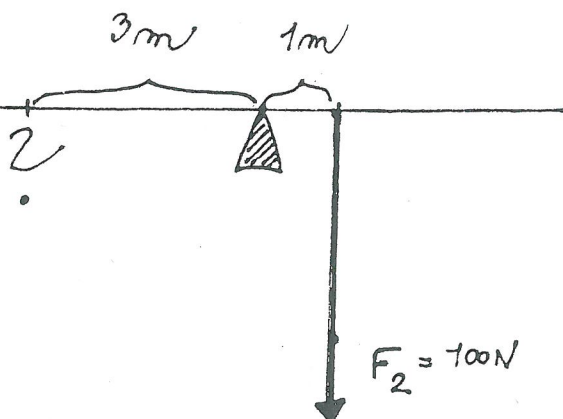
$$40 \cdot 6 = 3 \cdot F_2$$

$$420 = 3 \cdot F_2$$

$$F_2 = 420 : 3$$

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

②



$$a_1 = 3\text{ m} \quad F_1 = ?$$

$$a_2 = 1\text{ m} \quad F_2 = 100\text{ N}$$

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

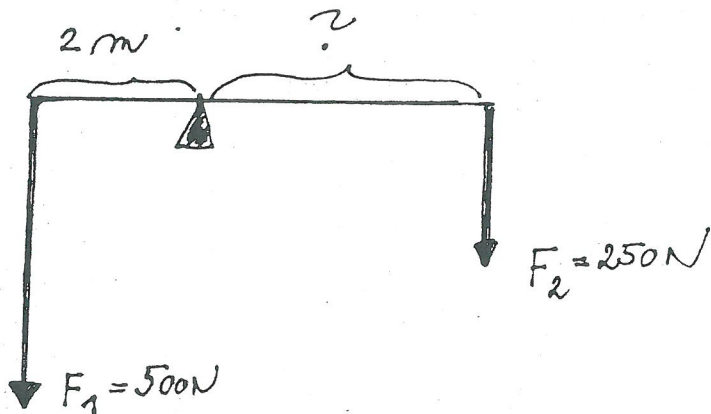
$$F_1 \cdot 3 = 1 \cdot 100$$

$$F_1 \cdot 3 = 100$$

$$F_1 = 100 : 3$$

$$\underline{\underline{F_1 = 33\text{ N}}}$$

③



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

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

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

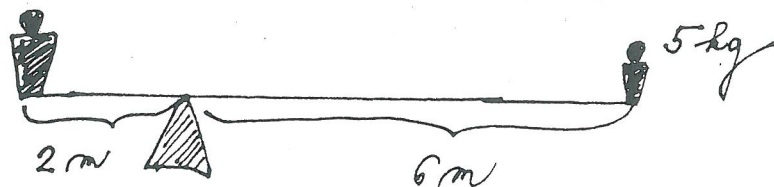
$$500 \cdot 2 = 250 \cdot a_2$$

$$1000 = 250 \cdot a_2$$

$$a_2 = 1000 : 250$$

$$\underline{\underline{a_2 = 4\text{ m}}}$$

④



$$a_1 = 2\text{ m} \quad F_1 = ?$$

$$a_2 = 6\text{ m} \quad F_2 = 50\text{ N} \quad \text{!!!}$$

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

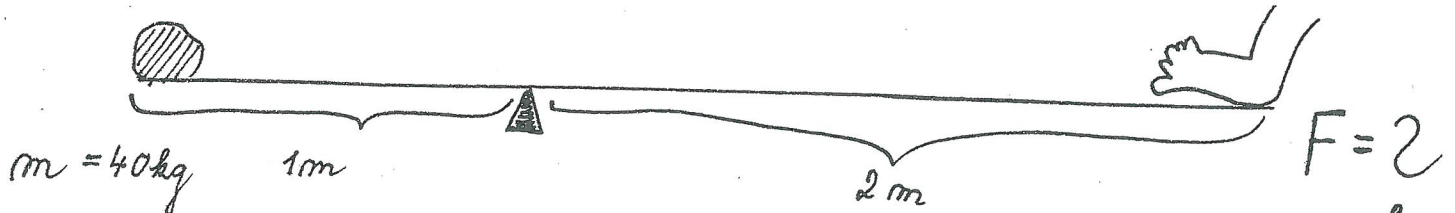
$$F_1 \cdot 2 = 50 \cdot 6$$

$$F_1 \cdot 2 = 300$$

$$F_1 = 300 : 2$$

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

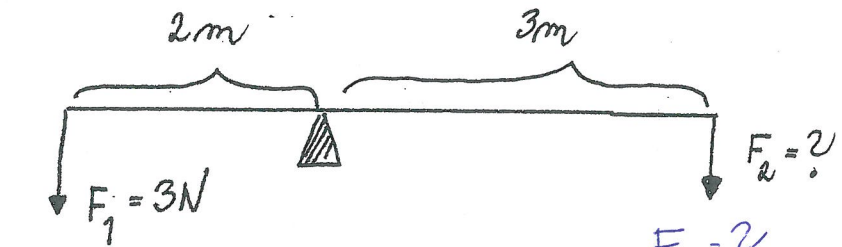
$$\underline{\underline{15\text{ kg}}}$$
 😊



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

$F_1 \cdot a_1 = F_2 \cdot a_2$
 $400 \cdot 1 = F_2 \cdot 2$
 $400 = F_2 \cdot 2$
 $F_2 = 400 : 2$
 $F_2 = 200 \text{ N}$

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

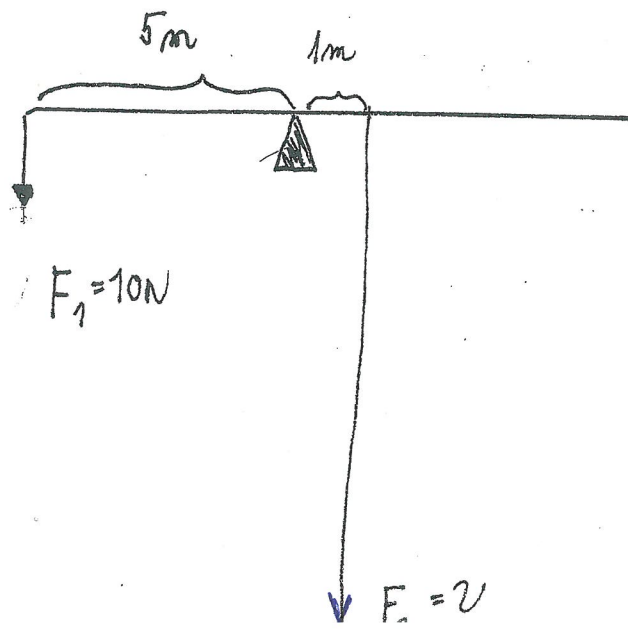


$F_1 = 3 \text{ N}$
 $a_1 = 2 \text{ m}$

$F_1 \cdot a_1 = F_2 \cdot a_2$
 $3 \cdot 2 = F_2 \cdot 3$
 $6 = F_2 \cdot 3$
 $F_2 = 6 : 3$

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

$F_2 = 2 \text{ N}$



$F_1 = 10 \text{ N}$

$F_1 = 10 \text{ N}$
 $F_2 = ?$
 $F_1 \cdot a_1 = F_2 \cdot a_2$
 $10 \cdot 5 = F_2 \cdot 1$
 $50 \text{ N} = F_2$

... ani pialante pa to, k je!
 recos i shodnost, TO JE DOBRE!
 ... ale jomikam a dropony by nile!
 mist i spust!
 Doham
 mas pac-kor!