$$\frac{b}{c} = \frac{F_H}{F_G} \qquad\qquad \frac{a}{c} = \frac{F_N}{F_G} \qquad\qquad \frac{a}{b} = \frac{F_N}{F_H}$$

a	b	c		
8cm	3cm		$F_H = 2N$	

$$\frac{8}{3} = \frac{F_N}{2N} \quad | \cdot 2N$$

$$\frac{16}{3} = 5{,}33N = F_N$$