

$$\Rightarrow b = \frac{170 \cdot 3}{10 \cdot 5^2} = \frac{51}{25}$$

$$\Rightarrow m = \frac{51}{25} \cdot \frac{8h^2}{l}$$

$$a) \quad m = \frac{51}{25} \cdot \frac{15,0 \cdot 10,0^2}{4,00} = 765 \approx \underline{760 \text{ (kg)}}$$

$$b) \quad 100 = \frac{51}{25} \cdot \frac{8 \cdot 2^2}{2} \quad | \cdot \frac{25 \cdot 2}{51 \cdot 2^2}$$

$$\Rightarrow l = 100 \cdot \frac{25 \cdot 2}{51 \cdot 2^2} = 24,5098 \approx \underline{25 \text{ (cm)}}$$