

Str. 69 / úloha 355,

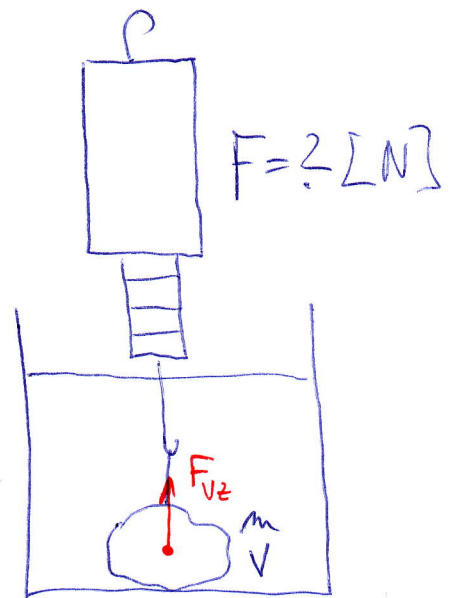
$$F = ? \text{ [N]}$$

$$m = 14,5 \text{ kg}$$

$$V = 5,5 \text{ dm}^3 = 0,0055 \text{ m}^3$$

$$\rho = 1000 \frac{\text{kg}}{\text{m}^3}$$

$$g = 10 \frac{\text{N}}{\text{kg}}$$



$$F_{vz} = F_g - F$$

$\Rightarrow$

$$F = F_g - F_{vz}$$

$$F = 145 - 55$$

$$F = 90 \text{ N}$$

$$F_g = m \cdot g$$

$$F_g = 14,5 \cdot 10$$

$$F_g = 145 \text{ N}$$

$$F_{vz} = V \cdot \rho \cdot g$$

$$F_{vz} = 0,0055 \cdot 1000 \cdot 10$$

$$F_{vz} = 55 \text{ N}$$

Ve vode zdvihneme kámen silou o velikosti 90 N.