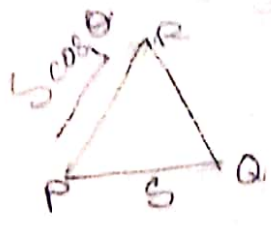
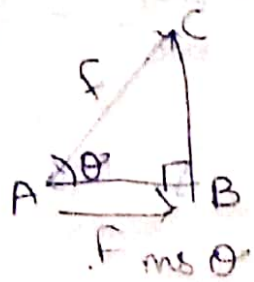


PR = mass of S
= S cos θ



mt = F cos θ

(2)

m = 50g

v = 20cm³

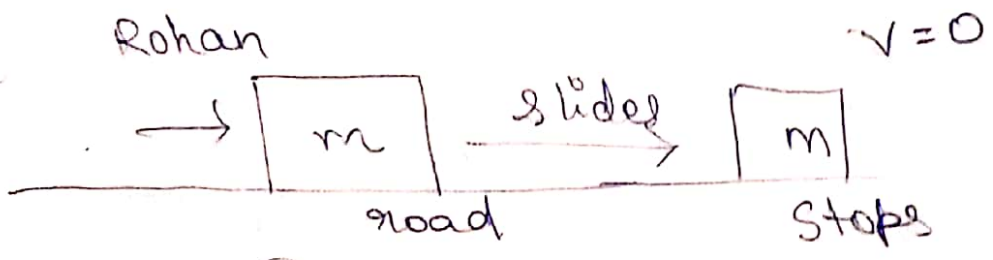
ρ_w = 1g/cc

ρ = $\frac{50g}{20cm^3}$

Sink

= 2.5g/cc

3rd case

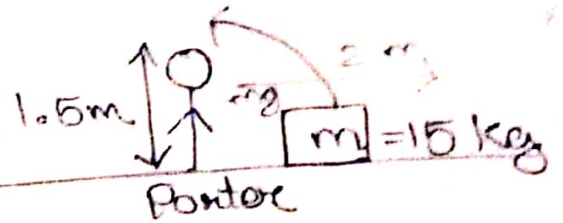


W = F x (S)

= -FS

opposite direction of Force and displacement

W. 2



$$W = F \times S$$
$$= 150 \times 1.5$$
$$= 225 \text{ J}$$

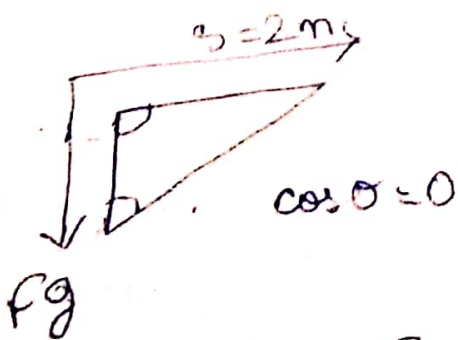
$$F_g = mg$$
$$F_p = -F_g$$
$$= 150 \text{ N}$$

$$W_g = F_g \cdot S$$
$$= 225 \text{ J}$$

$$F_g = mg$$
$$= 15(-10)$$
$$= -150 \text{ N}$$

$$F_p = -F_g$$
$$= -(-150)$$
$$= 150 \text{ N}$$

W.



$$W_{pg} = F \cos \theta$$