

WEEK 4

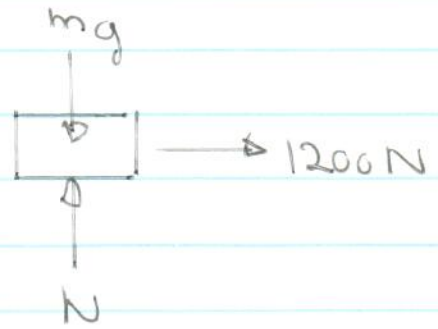
①

2A

$$(1) \rightarrow \Sigma F = ma$$

$$\therefore 1200 = 800 a$$

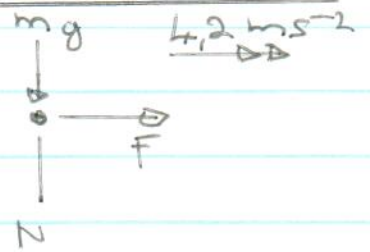
$$\therefore a = 1,5 \text{ m s}^{-2} \rightarrow$$



$$(3) \rightarrow \Sigma F = ma$$

$$F = 2200 \cdot 4,2$$

$$\therefore F = 9240 \text{ N} \rightarrow$$

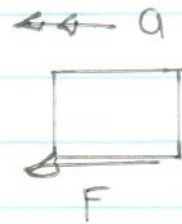


$$(6) u = 5 \text{ m s}^{-1}$$

$$m = 0,4 \text{ kg}$$

$$s = 8 \text{ m}$$

$$t = 2,5 \text{ s}$$



$$\rightarrow s = ut + \frac{1}{2} at^2$$

$$\therefore 8 = 5(2,5) + \frac{1}{2} a(2,5)^2$$

$$\therefore a = -1,44 \text{ m s}^{-2}$$

$$\leftarrow \Sigma F = ma$$

$$\therefore F = 0,4(1,44)$$

$$\therefore F = 0,576 \text{ N} \leftarrow$$

