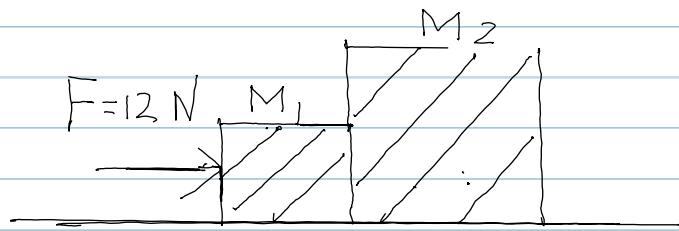


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兩個木塊被12牛頓的力推著沿無
 摩擦之水平面上移動(如圖).若
 $M_1 = 2\text{ 公斤}$, $M_2 = 4\text{ 公斤}$ 。試求 (1) 每一木塊
 所產生的加速度 (2) 每一木塊的作用
 力及產生作用力的分析。



$$F = Ma = (M_1 + M_2) a$$

(1)

$$a = \frac{F}{M_1 + M_2} = \frac{12}{2 + 4} = 2 \text{ 公尺/秒}^2$$

(2)

$$F_1 = M_1 a = 2 \times 2 = 4 \text{ 牛頓}$$

$$F_2 = M_2 a = 4 \times 2 = 8 \text{ 牛頓}$$

