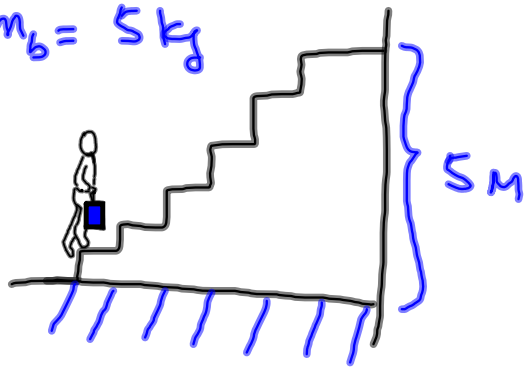
$m_p = 60\,kg$

$m_b = 5\,kg$



325 J ✓✓✓✓

2943 J

1500 J

625 J

MOST OF WORK IS DONE IN "y" DIRECTION ✓

$$\text{Work} = [F][d]_{\parallel}$$

TOTAL MASS BEING MOVED = 65 kg

FORCE REQUIRED $= \left[9.81\ \frac{m}{s^2}\right][65\,kg]$ → $W = mg$ } all in "y" DIRECTION

$= 637.65\ N$

$$\text{Work} = [F][d]_{\parallel}$$

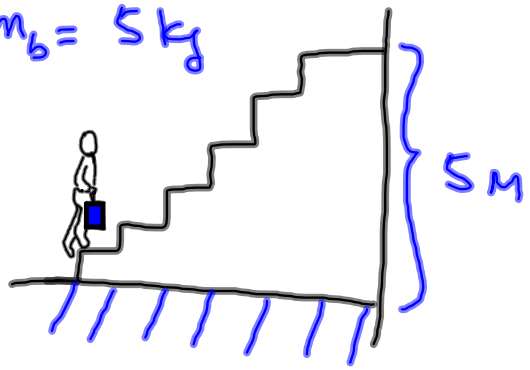
$= [9.81][65][5]$

$637.65\,N$

$3188.25\ J$

$m_p = 60\,kg$

$m_b = 5\,kg$



2943 J

325 J ✓✓✓✓

25 J

MOST OF WORK IS DONE IN "y" DIRECTION ✓

$$\text{Work} = [F][d]_{\parallel}$$

TOTAL MASS BEING MOVED = 65 kg

FORCE REQUIRED $= \left[9.81 \frac{m}{s^2}\right][65\,kg]$ → $W = mg$ } all in "y" DIRECTION

$= 637.65\,N$

$$\text{Work} = [F][d]_{\parallel} = [9.81][65][5]$$ ← 5 Meters

$[9.81][65] = 637.65\,N$

$637.65\,N \times 5 = 3188.25\,J$