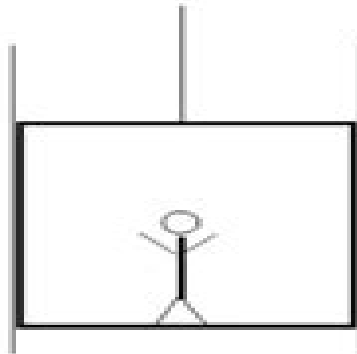
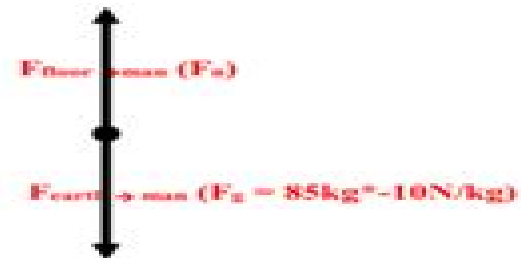


## UNIT V: Worksheet 1

1. An elevator is moving up at a **constant velocity** of 2.5 m/s, as illustrated in the diagram below:  
The man has a mass of 85. kg.



- a. Construct a force diagram for the man.



- b. What force does the floor exert on the man?

**CV :  $F_{net,x} = 0\text{N}$  (no forces acting in x-direction)**

**CV:  $F_{net,y} = 0\text{N} = F_g + F_n = (-850\text{N}) + F_n$        $F_n = +850\text{N}$**

2. The elevator now accelerates upward at 2.0 m/s<sup>2</sup>.

- a. Construct a force diagram for the man.

**$F_n > F_g$  because of positive acceleration in positive direction.**



- b. What force does the floor now exert on the man?

**CV :  $F_{net,x} = 0\text{N}$  (no forces acting in x-direction)**

**UA:  $F_{net,y} > 0\text{N} = F_g + F_n = (-850\text{N}) + F_n$        $F_{net,y} = (85\text{kg} * +2.0\text{m/s}^2) = 170\text{N}$**

**$F_n = +1020\text{N}$  (also called apparent weight)  
Man feels heavier.**

# Unit Vi Worksheet 3 Answers Physics

**Thirumalaisamy P.**  
**Velavancorresponding**



## Unit Vi Worksheet 3 Answers Physics:

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