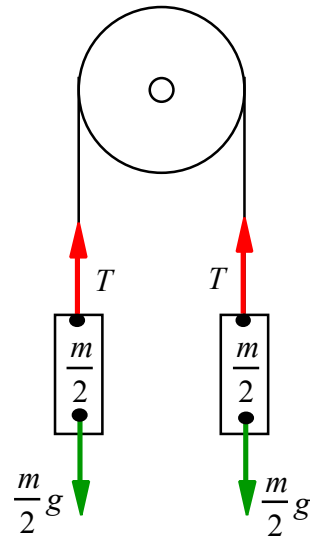


### Quiz 5, February 20, 2001

1) A mass,  $m$ , is hung from each end of a string that passes over a massless and frictionless pulley as shown in the figure to the right. What is the tension,  $T$ , in the string?

- a)  $m$
- b)  $\frac{m}{2}$
- c)  $mg$
- d)  $2mg$
- \*e)  $\frac{mg}{2}$



2) A mass,  $m$ , is placed on top of an identical mass, and both are resting on the ground. What is magnitude,  $F$ , of the force that the ground applies to the bottom mass?

- a)  $m$
- b)  $\frac{m}{2}$
- c)  $mg$
- \*d)  $2mg$
- e)  $\frac{mg}{2}$

