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in order to solve this problem we need to note that this is a statics problem as there is no motion the leg is suspended not being picked up only one force needs to be defined and that is $f \cdot mg$

solution since this is a statics problem we use the following equations $\sum f = 0$ $\sum m = 0$ which leads to $f = g \cdot f \cdot t$

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the ways to think about forces moments and equilibrium and the mathematics used to manipulate them are like tools in your toolbox solving statics problems requires acquiring choosing and using these tools some problems can be solved with a single tool while others require multiple tools

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