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Solution: Given: $T = 2 \text{ sec}$ (a) $k T n^2 = 2 \text{ m} + 50 \text{ g}$ k 0.75 sec (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives $2 \text{ ? ? ? } 50 \text{ ? } 0.75 \text{ ? ? } T n^2 \text{ m} = +50 \text{ g ? } 1 = \text{ ? } 2.25 \text{ ? } T n$

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