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Solution: Given:  $T_n = 0.5 \text{ sec}$  (a)  $k T_n = 2 m + 50 \text{ g}$  (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives  $2 \cdot 50 \cdot 0.75 \cdot T_n \cdot m = +50 \text{ g} \cdot 1 = 2.25 \cdot T_n$

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