

Given: $m = 350 \text{ g}$ or 0.350 kg ; $L = 2.3 \text{ m}$; $v = 50.0 \text{ m/s}$

Required: F_T

Analysis: First, calculate the linear density, μ . Second, rearrange the equation for the speed of a wave on a string to solve for the tension, F_T : $\mu = \frac{m}{L}$; $v = \sqrt{\frac{F_T}{\mu}}$

Solution:

$$\begin{aligned}\mu &= \frac{m}{L} \\ &= \frac{0.350 \text{ kg}}{2.3 \text{ m}}\end{aligned}$$

$$\mu = 0.152 \text{ kg/m} \text{ (one extra digit carried)}$$

$$v = \sqrt{\frac{F_T}{\mu}}$$

$$v^2 = \frac{F_T}{\mu}$$

$$\begin{aligned}F_T &= v^2 \mu \\ &= (50.0 \text{ m/s})^2 (0.152 \text{ kg/m}) \\ &= 380.4 \text{ N}\end{aligned}$$

$$F_T = 380 \text{ N}$$

Statement: The required tension of the string on the wave machine is 380 N.

Answers For Physical Science Waves Calculations

David Halliday, Robert Resnick, Jearl Walker



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