## Answer on Question \#71477- Physics-Other

Dana rolls a marble with a speed of $5.0 \mathrm{~m} / \mathrm{s}$ across a level table that is 1.6 m above the floor. Upon reaching the edge of the table it follows a parabolic path to the floor. How far does the marble travel in the $x$-direction?

## Solution

$$
\begin{gathered}
x=v t \\
t=\sqrt{\frac{2 h}{g}} \\
x=v \sqrt{\frac{2 h}{g}}=5 \sqrt{\frac{2(1.6)}{9.8}}=2.9 \mathrm{~m}
\end{gathered}
$$

Answer: $\mathbf{2 . 9} 9$.
Answer provided by https://www.AssignmentExpert.com

