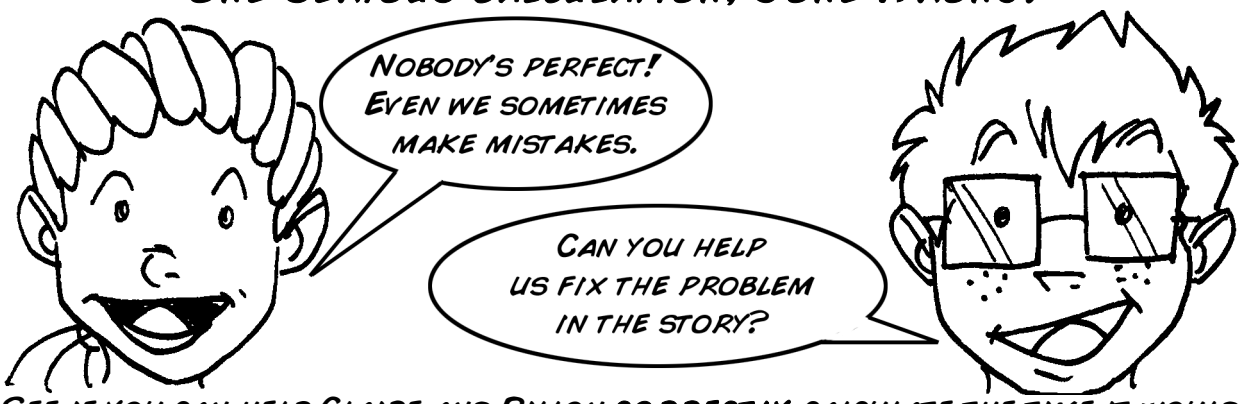
One Serious Calculation, Gone Wrong!



See if you can help Claire and Dillon **correctly** calculate the time it would take him to jet up the 21-story bank building at 6 G's, using the formula distance = 1/2 x acceleration x time squared. The steps in the comic are listed on the left; put your corrections on the right.

Steps in the Comic	Correct Steps
$200\ \text{ft} = \frac{1}{2} \times 192 \frac{\text{ft}}{\text{sec}^2} \times t^2$	
$200\ \text{ft} = 81 \frac{\text{ft}}{\text{sec}^2} \times t^2$	
$200\ \text{ft} \times \frac{\text{sec}^2}{81\ \text{ft}} = \frac{\text{sec}^2}{81\ \text{ft}} \times \frac{81\ \text{ft}}{\text{sec}^2} \times t^2$	
$\frac{200}{81}\ \text{sec}^2 = t^2$	
$\sqrt{\frac{200}{81}\ \text{sec}^2} = \sqrt{t^2}$	
$\frac{\sqrt{100 \times 2}}{\sqrt{81}}\ \text{sec} = t$	
$t = \frac{10\sqrt{2}}{9}\ \text{sec} \approx 1.5\ \text{sec}$	

Luckily, Wonderguy was able to adjust intuitively and save the day!

Super-Tricky! If Wonderguy flew up at only 1 G, how long would it take? How does this answer relate to the correct answer?