

12-13.

Tests reveal that a normal driver takes about 0.75 s before he or she can *react* to a situation to avoid a collision. It takes about 3 s for a driver having 0.1% alcohol in his system to do the same. If such drivers are traveling on a straight road at 30 mph (44 ft/s) and their cars can decelerate at 2 ft/s^2 , determine the shortest stopping distance d for each from the moment they see the pedestrians. *Moral:* If you must drink, please don't drive!



SOLUTION

Stopping Distance: For normal driver, the car moves a distance of $d_1 = vt = 44(0.75) = 33.0 \text{ ft}$ before he or she reacts and decelerates the car. The stopping distance can be obtained using Eq. 12-6 with $s_0 = d_1 = 33.0 \text{ ft}$ and $v = 0$.

$$\begin{aligned} 1 \quad 2 \quad 1 \quad & v^2 = v_0^2 + 2a_x(s - s_0) \\ 0^2 = 44^2 + 2(-2)(d - 33.0) \\ & d = 517 \text{ ft} \end{aligned}$$

Ans.

For a drunk driver, the car moves a distance of $d_1 = vt = 44(3) = 132 \text{ ft}$ before he or she reacts and decelerates the car. The stopping distance can be obtained using Eq. 12-6 with $s_0 = d_1 = 132 \text{ ft}$ and $v = 0$.

$$\begin{aligned} 1 \quad 2 \quad 1 \quad & v^2 = v_0^2 + 2a_x(s - s_0) \\ 0^2 = 44^2 + 2(-2)(d - 132) \\ & d = 616 \text{ ft} \end{aligned}$$

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