An automobile accelerates $2.1 \mathrm{~m} / \mathrm{s}^{2}$ over 4.50 s to reach freeway speed at the end of an entrance ramp. If the car's final speed is $90.0 \mathrm{~km} / \mathrm{h}$, what was its initial speed when it began accelerating? Express your answer in $\mathrm{km} / \mathrm{h}$. ( $55.98 \mathrm{~km} / \mathrm{h}$ )

An automobile accelerates $2.1 \mathrm{~m} / \mathrm{s}^{2}$ over 4.50 s to reach freeway speed at the end of an entrance ramp. If the car's final speed is $90.0 \mathrm{~km} / \mathrm{h}$, what was its initial speed when it began accelerating? Express your answer in $\mathrm{m} / \mathrm{s}$. $(15.55 \mathrm{~m} / \mathrm{s}$ )

A rock is dropped from the top of a tower and accelerates at a rate of $9.8 \mathrm{~m} / \mathrm{s}^{2}$ over a 0.075 minute time frame. What is the rocks final speed? $(44.1 \mathrm{~m} / \mathrm{s})$

A rock is thrown from the top of a tower and accelerates at a rate of $9.8 \mathrm{~m} / \mathrm{s}^{2}$ over a 0.075 minute time frame. What was the rocks initial speed of the final speed is $180 \mathrm{~km} / \mathrm{h}$ ? $(5.9 \mathrm{~m} / \mathrm{s})$

