

A car travelling at $120 \mathrm{~km} / \mathrm{hr}$ comes to a stop in 2.4 s . What is the acceleration?

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$-\quad 5.0 \mathrm{~m} / \mathrm{s}$ and slows down to 4.0 $\mathrm{m} / \mathrm{s}$ in 2.0 s . What is her acceleration?
3. A bullet accelerates from a rifle barrel. If it starts from rest, and accelerates to $740 \mathrm{~m} / \mathrm{s}$ in 0.010 s , what was the acceleration?

[^0]5. How long will it take you to stop if you are moving at $52 \mathrm{~km} / \mathrm{hr}$ and acceleratin at $-5.5 \mathrm{~m} / \mathrm{s}^{2}$ ?
6. A ball is thrown straight up and has an acceleration of $-9.8 \mathrm{~m} / \mathrm{s}$ How fast was it thrown if it climbs for $2.2 s$ before stopping?
7. A rocket increases its velocity from $1100 \mathrm{~m} / \mathrm{s}$ to $110000 \mathrm{~m} / \mathrm{s}$ with an acceleratio of $30.0 \mathrm{~m} / \mathrm{s}^{2}$. How long did this acceleration last?
8. A car accelerates at $-2.5 \mathrm{~m} / \mathrm{s}^{2}$ for 1.2 s . If the car was originally going $12 \mathrm{~m} / \mathrm{s}$, how fast is it going now?


[^0]:    4. How long does it take a car to accelerate from zero to $120 \mathrm{~km} / \mathrm{hr}$ at $2.6 \mathrm{~m} / \mathrm{s}^{2}$ ?
