

4) If the car moves 20 m in 4 seconds, what is its acceleration?

$$d = \frac{1}{2}at^2 \rightarrow a = \frac{2d}{t^2} \rightarrow a = \frac{40\text{m}}{(4\text{s})^2} = \frac{40}{16} \text{ m/s}^2$$

$$a = \frac{5}{2} \text{ m/s}^2 = 2\frac{1}{2} \text{ m/s}^2$$

