## **Acceleration Questions**

Examples: Find the acceleration of a car moving at 105 km/h that comes to a stop in 6.0 s.  $Q = \sqrt{2 - V_1} = 6 - 29.2 - 4.9$   $6.0 \text{ M/s}^2$ 

Example: Find the time required for a plane to change its velocity from 250 km/h [S] to 250 km/h [N] while accelerating uniformly at 8.0 m/s<sup>2</sup> [N]

$$0 = 8.0 \text{ m/s}^{2} \text{ End}$$

$$V_{1} = 250 \cdot \text{Km/k} \text{ [s]} = 69.4 \text{ m/s} \text{ [s]}$$

$$V_{2} = 250 \text{ km/h} \text{ End} = 69.4 \text{ m/s} \text{ [nd]}$$

$$t = ?$$

$$0 = \sqrt{2} - \sqrt{2}$$

$$1 = - \text{[s]}$$

$$1 = - \text{[s]}$$

$$2 = - \text{[nd]}$$

$$3 = - \text{[nd]}$$

$$3 = - \text{[nd]}$$

$$4 = - \text{[nd]}$$

$$4 = - \text{[nd]}$$

$$8 = - \text{[nd]}$$

$$4 = - \text{$$