

Velocity - Time Graph

2. A car starts from **rest** on a straight road. The car uniformly accelerates for **40 seconds**, reaching the **velocity of 25 m/s**. Then the car travels at a constant speed of **25 m/s** for **t** seconds. The car finally decelerates at a constant rate coming to rest in a further 30 seconds.
- Find the acceleration in the first **40 s**.
 - Given that the distance travelled is **1.8 km**. Find the value of **t**.
 - Sketch **Velocity-Time graph**.


