

**Question 1:**

A plane starts from rest and accelerates uniformly over a time of 20 s for a distance of 300 m. Determine the plane's acceleration.

**Question 2:**

A car starts from rest and accelerates uniformly over a time of 5.21 seconds for a distance of 110 m. Determine the acceleration of the car.

**Question 3:**

A race car accelerates uniformly from 18.5 m/s to 46.1 m/s in 2.47 seconds. Determine the acceleration of the car and the distance traveled.

**Question 4:**

A plane has a takeoff speed of 88.3 m/s and requires 1365 m to reach that speed. Determine the acceleration of the plane if it starts from rest and the time required to reach this speed.