

## PHYSICS WORKSHEET – Acceleration Problems

Answer the following questions.

1. While traveling along a highway a driver slows from 24 m/sec to 15 m/sec in 12 seconds. What is the automobile's acceleration? (Remember that a negative value indicates a slowing down or deceleration.)

<b>Looking for</b>	<b>Solution</b>
<b>Given</b>	
<b>Relationship</b>	

2. A parachute on a racing dragster opens and changes the speed of the car from 85 m/sec to 45 m/sec in a period of 4.5 seconds. What is the acceleration of the dragster?

Answer Sheet:

1. While traveling along a highway a driver slows from 24 m/sec to 15 m/sec in 12 seconds. What is the automobile's acceleration? (Remember that a negative value indicates a slowing down or deceleration.)

Answer:  $-0.75 \text{ m/sec}^2$

2. A parachute on a racing dragster opens and changes the speed of the car from 85 m/sec to 45 m/sec in a period of 4.5 seconds. What is the acceleration of the dragster?

Answer:  $-8.9 \text{ m/sec}^2$