

Name _____

Circle your answers, and label them with units.

When you have finished this, go to the website and check your answers. If you got a problem wrong, cross it off on the front, and do it correctly on the back.

1. A car has an acceleration of 1.20 m/s^2 for 3.50 seconds, at the end of which it is going 24.0 m/s . What was its initial velocity?

2. A car moves 214 m with an acceleration of 4.80 m/s^2 in 6.00 seconds. What was its final velocity?

3. A dragster starts from rest and moves $180. \text{ m}$ in 4.30 seconds. What is its acceleration?

4. A bike coasts from 12.5 m/s to rest in a distance of 27.2 m . What is its acceleration?

5. An airplane coasts with a uniform acceleration from 92.5 m/s to rest over a distance of 624 m . What was its velocity when it had covered only $200. \text{ meters}$ of that distance?