

Name _____

Round to the correct significant figures, 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?