**IB Physics**

**FA 2.3 - Basic Kinematics**

Name

Round to the correct significant figures, circle your answers, and label them with units. **You must memorize the kinematics formulas for this!**

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/s 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/s in 6.00 seconds. What was its final velocity?

3. A dragster starts from rest and moves 180. 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. meters of that distance?