Advantage Aviation Inc.
SINGLE ENGINE CHECKOUT

Aircraft Make & Model:_____ **Name:**_____
Instructor:_____ **Date:**_____

AIRSPEEDS Knots/Miles per hour (circle one)

V_S:_____ Cruise climb:_____
V_{SO}:_____ V_{FE}:_____
Rotate V_R:_____ V_{NO}:_____
V_Y:_____ V_{LE}:_____
V_X:_____ V_{LO}:_____
V_A:_____ V_{NE}:_____
V_{App}:_____ Max crosswind:_____
Short field approach:_____ Best glide:_____
Go around:_____ Max Window Open:_____

ENGINE

Manufacturer:_____ Model:_____
Horsepower:_____ Type:_____

OIL

Absolute minimum:_____ Minimum for operation:_____
Maximum:_____ Grade:_____

FUEL

Grade:_____ Color:_____
Max Capacity (total):_____ Max total cap. at tabs:_____
Max Capacity (usable):_____ Max usable cap. at tabs:_____

WEIGHT AND BALANCE

Max ramp weight:_____ Max takeoff weight:_____
Max landing weight:_____ BEW:_____
Useful load:_____ Max payload w/full fuel:_____

	WEIGHT	ARM	MOMENT
BEW			
Front seats			
Rear seats			
Baggage			
Fuel			
TOTAL			

CG in/out:_____ Correction:_____
CG position after 3hrs flight:_____

MISC

1. During run-up, one of the magnetos is running rough. What is happening and what will you do about it?_____
2. When should the mixture be leaned?_____
3. Explain how you lean the mixture:_____
4. How do you detect carburetor/induction ice?_____
5. What can you do about it?_____
6. When should you use carburetor heat?_____

ELECTRICAL SYSTEM

1. If the low voltage warning light illuminates, what might have happened?_____
2. What can be done about it during flight?_____
3. Describe your actions in the event of an electrical fire:_____

PERFORMANCE

Service ceiling of this aircraft:_____

- TAKE-OFF DISTANCE: (max gross weight)
  - Max gross weight, sea level, standard temperature, 10 kts headwind:
    - Takeoff roll:_____
    - 50' obstacle:_____
  - Max gross weight, 6000' pressure altitude, 28˚C, 5 kts headwind:
    - Takeoff roll:_____
    - 50' obstacle:_____
- CLIMB PERFORMANCE: (no wind)
  - Max gross weight, sea level, standard temperature:_____
  - Max gross weight, 7000' pressure altitude, 25^{o}C:_____
- CRUISE: (7000', 15^{o}C, 65% power, full fuel)
  - Max flight duration with 45 minutes reserve:_____
  - How many gallons of fuel used:_____
- LANDING DISTANCE:
  - Max gross weight, sea level, standard temperature, 10 kts headwind:_____
  - Max gross weight, 6000' pressure altitude, 28^{o}C:
    - Landing roll:_____
    - 50' obstacle:_____