

Aircraft Ground Review

N162PT

Pilot: _____

Date: _____

AIRSPEDS

Fill out the following table (use IAS and specify MPH or KTS)

V _{so}		V _a		Best Glide	
V _{sl}		V _{no}		Normal Approach	
V _r		V _{ne}		Max Demonstrated Crosswind	
V _x		V _{fe}			
V _y					

SYSTEMS

1. What is the total fuel capacity and the total usable fuel capacity? _____

2. Where are the fuel drains located and what part of the fuel system does each one drain?

3. When should the fuel be sumped and checked? _____

4. What grade(s) and colors of fuel may be used? _____

5. What type of oil is used? _____

6. What is the manufacturer's minimum and maximum operating oil level? _____

9. Does this aircraft have carb heat? _____

10. If it does, when should carburetor heat be used?

11. What is the voltage of the electrical system? _____

PERFORMANCE

Using the following conditions and the aircraft at maximum gross weight departing and landing at U42, compute the following:

Wind: 110@15 Temperature: 30°C Altimeter: 30.31

1. Crosswind component: _____

2. What is the pressure altitude _____

3. Takeoff ground roll distance _____

4. Total takeoff distance to clear a 50 foot obstacle _____

5. Fuel burn rate and TAS at 9,500 feet MSL with 65% power _____

6. Landing ground roll distance _____

7. Total landing distance to clear a 50 foot obstacle _____

WEIGHT & BALANCE

- 1. What is the maximum takeoff weight? _____
- 2. What is empty weight of this aircraft? _____
- 3. What is the useful load? _____
- 4. What is the payload with full fuel? _____
- 4. How much weight is allowed in the baggage area? _____
- 5. Compute the weight and balance for your check out flight.

	Weight	Arm	Moment
Empty			
Fuel			
Front Passengers			
Rear Passengers			
Baggage			
Totals			

EMERGENCY PROCEDURES

- 1. What is the emergency procedure for an engine failure in flight?

- 2. What is the emergency procedure for an electrical fire?

- 3. What is the emergency procedure for an engine fire while starting?
