

# Aircraft Ground Review

## N2919U

Pilot: \_\_\_\_\_

Date: \_\_\_\_\_

### AIRSPEDS

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

|                 |  |                 |  |                       |  |
|-----------------|--|-----------------|--|-----------------------|--|
| V <sub>so</sub> |  | V <sub>a</sub>  |  | Best Glide            |  |
| V <sub>sl</sub> |  | V <sub>no</sub> |  | Normal Approach       |  |
| V <sub>r</sub>  |  | V <sub>ne</sub> |  | Demonstrate Crosswind |  |
| V <sub>x</sub>  |  | V <sub>fe</sub> |  | V <sub>lo</sub>       |  |
| V <sub>y</sub>  |  |                 |  | V <sub>le</sub>       |  |

### 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@18 Temperature: 35°C Altimeter: 30.53

1. Crosswind component: \_\_\_\_\_
2. What is the pressure altitude \_\_\_\_\_
3. How many degrees above or below standard is it? \_\_\_\_\_
4. Takeoff ground roll distance \_\_\_\_\_
5. Total takeoff distance to clear a 50 foot obstacle \_\_\_\_\_
6. Fuel burn rate and TAS at 10,500 feet MSL with 64% power \_\_\_\_\_
7. Landing ground roll distance \_\_\_\_\_
8. 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?

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

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

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