

## Warrior II Aircraft Questionnaire

1. The Warrior is powered by a \_\_\_\_\_ (make and model) engine which delivers \_\_\_\_\_ HP at 2700 RPM. Static RPM should be between \_\_\_\_\_ and \_\_\_\_\_ RPM.
2. Under normal conditions, the propeller clearance off the ground is \_\_\_\_\_.
3. The maximum gross weight allowable is \_\_\_\_\_ lbs for the normal category of operations.
4. The maximum fuel capacity is \_\_\_\_\_ gallons, of which \_\_\_\_\_ are usable.
5. The Warrior is serviced with \_\_\_\_\_ fuel.
6. Oil capacity of the O-320 is \_\_\_\_\_ quarts. The minimum safe oil capacity is \_\_\_\_\_ quarts. For normal operations, \_\_\_\_\_ is the maximum amount of oil used.
7. The strut extension should be \_\_\_\_\_ inches on the nose strut and \_\_\_\_\_ on the main strut. Pilots should clean the struts periodically using \_\_\_\_\_.
8. There are \_\_\_\_\_ fuel drains.
9. The magneto check is made at \_\_\_\_\_ RPM, with an individual magneto drop of \_\_\_\_\_ RPM allowable and a differential drop of \_\_\_\_\_ RPM.
10. Rotation speed on takeoff is \_\_\_\_\_ MPH.
11. The best angle of climb is \_\_\_\_\_ MPH.
12. The best rate of climb is \_\_\_\_\_ MPH.
13. Maneuvering speed is \_\_\_\_\_ MPH.
14. Maximum flap extension is \_\_\_\_\_ MPH.
15. The stall warning horn sounds at \_\_\_\_\_ MPH before a stall occurs.
16. The flaps up approach speed is \_\_\_\_\_ MPH.
17. The flaps lower at \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ degrees corresponding to each notch of flaps.

18. Approach speed on final approach is \_\_\_\_\_
19. Carburetor heat is turned ON during a normal landing (T / F).
20. Intentional spins (are / are not) permitted in this aircraft.
21. In the event of an inadvertent spin, the recovery techniques is as follows:
- a.
  - b.
  - c.
  - d.
22. The electric fuel pump should be ON during what portion of flight:
- a.
  - b.
  - c.
  - d.
23. Why should running takeoffs and extended slips be avoided?
24. You are operating at 65% power at a pressure altitude of 6,000 feet and a temperature of 30 degrees F. Under these conditions, 65% power can be achieved at \_\_\_\_\_RPM True airspeed will be \_\_\_\_\_. Fuel consumption will be \_\_\_\_\_GPH.. Range with a 45 minute reserve will be \_\_\_\_\_miles.
25. At maximum normal category weight, the ground run distance, and distance required to clear a 50 foot obstacle would be \_\_\_\_\_and \_\_\_\_\_fet, respectively,. The departure airport shows sea level pressure altitude, 59 degrees F, no wind, and using no flaps.
26. You are landing at a field where pressure altitude is sea level; the temperature is 90 degrees F, and no wind. The total distance to clear a 50 foot obstacle would be \_\_\_\_\_ feet and the ground roll distance would be \_\_\_\_\_. Feet.
27. Immediately after departure, you discover that the door is unlatched. What are your actions?

28. If you experience engine failure because one of the fuel tanks was run dry, up to \_\_\_\_\_ seconds may be required to fill the empty fuel lines after switching tanks or properly positioning the selector.
29. You notice that the ammeter reads "0" and that actuating the landing light results in no response from the ammeter. What has probably happened?
30. Describe what steps should be taken.
31. During the flight, the engine begins to run rough. Describe what steps should be taken
32. Complete the following loading problem for N41977.

Item	Weight	Arm	Moment
Plane			
Oil			
Front Passengers	180 and 160 pounds		
Fuel (filled to tabs)			
Rear Passengers	170 pounds		
Baggage	25 pounds		
Total			

Is the aircraft within the weight limit and CG allowance? (Yes / No)