

# Aero Fliers Ground Review Checklist

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

1. Aircraft serial number \_\_\_\_\_
2. What is the total fuel capacity? \_\_\_\_\_
3. How many tanks are there? \_\_\_\_\_
4. What is the capacity of each tank? \_\_\_\_\_
5. What is the usable fuel capacity? \_\_\_\_\_
6. What is the correct fuel grade? \_\_\_\_\_
7. What color is the correct fuel? \_\_\_\_\_
8. How many fuel drains are there? \_\_\_\_\_
9. Where are they located? \_\_\_\_\_
10. When are they drained? \_\_\_\_\_
11. What is the minimum operating oil level? \_\_\_\_\_
12. What is the aircraft empty weight? \_\_\_\_\_
13. What is the recommended grade of oil? \_\_\_\_\_
14. What is the aircraft empty moment? \_\_\_\_\_
15. What is the aircraft useful load? \_\_\_\_\_
16. What is the maximum aircraft takeoff weight? \_\_\_\_\_
17. What is the maximum aircraft landing weight? \_\_\_\_\_
18. What is the recommended short field approach speed and configuration? \_\_\_\_\_
19. What is the recommended normal approach speed? \_\_\_\_\_
20. What is the best rate of climb speed ( $V_y$ )? \_\_\_\_\_
21. What is the best angle of climb speed ( $V_x$ )? \_\_\_\_\_
22. What is the maneuvering speed ( $V_a$ ) \_\_\_\_\_
23. What is the stall speed in landing configuration (VSO)? \_\_\_\_\_
24. What is the stall airspeed in landing configuration with a 60 degree bank? \_\_\_\_\_

25. What is the maximum demonstrated crosswind component for your aircraft (20% VSO)? \_\_\_\_\_
26. What is the purpose of flaps? \_\_\_\_\_
27. How do you detect carburetor ice? \_\_\_\_\_
28. In the event of carb ice, what do you do? \_\_\_\_\_  
\_\_\_\_\_
29. What are the power setting, fuel consumption and true airspeed for the following:  
-65% power, 7500 feet, standard temp.  
MP \_\_\_\_\_ RPM \_\_\_\_\_  
Fuel consumption \_\_\_\_\_  
TAS \_\_\_\_\_
30. What would be a indication of alternator malfunction? \_\_\_\_\_
31. Where is the alternate static source located? \_\_\_\_\_
32. What changes in pitot/static instruments would you expect? \_\_\_\_\_  
\_\_\_\_\_
33. Describe the “go around” procedure: \_\_\_\_\_  
\_\_\_\_\_
34. What is the minimum runway length for takeoff in your aircraft?  
Max gross weight, no wind, 5000ft., 40c temp. 50ft. obstacle: \_\_\_\_\_
35. What is the minimum runway length for takeoff in your aircraft?  
Max gross weight, no wind, sea level, standard temp. \_\_\_\_\_
36. When are your passengers required to have their seat belts fastened? \_\_\_\_\_
37. What aircraft documents must be on board during flight? \_\_\_\_\_
38. What are the basic VFR weather minimums for flight in class E airspace? \_\_\_\_\_
39. What are the basic VFR weather minimums for flight in class G airspace? \_\_\_\_\_

40. When is a transponder required in your aircraft? \_\_\_\_\_
41. VFR cruising altitudes are required at what altitude? \_\_\_\_\_
42. What inspections are required on your aircraft? \_\_\_\_\_
43. What is the best glide speed and configuration? \_\_\_\_\_

Weight and balance problem:

**Given:**

Aircraft load (note: crew, passengers and baggage must make trip)

Pilot: 175 lbs.

Co-pilot: 180 lbs.

1<sup>st</sup> passenger: 180 lbs.

2<sup>nd</sup> passenger: 170 lbs.

Baggage: 120 lbs.

Hat shelf: 20 lbs.

Fuel: Max capacity with long-range tanks

Cruise altitude: 5000ft. at standard temp.

(use normal climb speed to reach)

Cruise power: 64%

Allow 45 minutes minimum reserve at 45% power

(ref. pg. 5-24)

Find:

- 1) Time, fuel and distance to climb to cruise altitude from sea level.
  - a) \_\_\_\_\_ Minutes
  - b) \_\_\_\_\_ Gallons

- c) \_\_\_\_\_ NM distance
- d) \_\_\_\_\_ FPM rate of climb

2) Cruise power setting

- a) \_\_\_\_\_ inches
- b) \_\_\_\_\_ RPM
- c) \_\_\_\_\_ TAS kts
- d) \_\_\_\_\_ GPH fuel consumption

3) Maximum trip length at cruise \_\_\_\_\_ NM

4) Maximum flying time \_\_\_\_\_ Hours

Loading Table:

	Weight	Arm	Moment
1) Basic empty weight	_____	_____	_____
2) Useable fuel	_____	_____	_____
3) Pilot & front passenger	_____	_____	_____
4) Second row passengers	_____	_____	_____
5) Baggage	_____	_____	_____
6) Hat shelf	_____	_____	_____
7) Total wgt. and moment	_____	_____	_____

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_