

Aero Fliers Ground Review Checklist

C172

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 air craft 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 carburetor ice, what do you do?

29. What is the power setting, fuel consumption and true airspeed for the following:

5000ft, standard temp.

% Power _____

RPM_2300 _____

GPH _____

KTAS _____

30. What would be an 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? _____
44. Plan a flight to Teterboro NJ (TEB), No wind and the following conditions

Given:

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

Pilot: 166 lbs.
1st passenger: 80 lbs.
2nd passenger: 200 lbs.
3rd passenger: 100 lbs.
Baggage area 1: 100 lbs.
Baggage area 2: 40 lbs.

Fuel: Max capacity with standard tanks

Cruise altitude: 5000ft. at standard temperature
(Use normal climb speed to reach)

Allow 45 minutes minimum reserve at 45% power

Find:

45. Time, fuel and distance to climb to cruise altitude from sea level.

- a) Minutes _____
- b) Gallons _____
- c) Distance _____
- d) Rate of Climb _____

46. Cruise power setting

- a) _____ RPM
- b) _____ TAS kts
- c) _____ GPH fuel consumption
- d) _____ % Power

47. Maximum trip length at cruise _____ NM

48. Maximum flying time _____ Hours

49. Can you make the flight? _____

Reviewed by: _____ Date: _____

Loading Table:

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