



COLORADO FLIGHT CENTER

AIRCRAFT REVIEW

Aircraft Make and Model: **Piper PA-44-180T "Seminole"**

Pilot Name: _____ Date: _____

All aircraft documents may be used for this review.

1. What is the total fuel capacity? _____
 2. How many fuel tanks are there? _____
 3. What is the capacity of each tank? _____
 4. What is the total useable fuel capacity? _____
 5. What is the correct fuel grade? _____
 6. What is the color of the correct fuel grade? _____
 7. Where are the fuel drains located? _____
 8. When should they be drained? _____
 9. What is the recommended grade and type of oil? _____
 10. What is the minimum operating oil level? _____
 11. What is the aircraft empty weight? _____
 12. What is the useful load? _____
 13. What is the maximum aircraft gross weight? _____
 14. What is the maximum operating altitude? _____
 15. What is the single-engine service ceiling at maximum gross weight and standard temperature? _____
 16. What is the best rate of climb airspeed (V_Y)? _____
 17. What is the best angle of climb airspeed (V_X)? _____
 18. What is the blue line on the airspeed indicator? _____
 19. What is the best single-engine rate of climb speed (V_{YSE})? _____
 20. What effect does reducing gross weight have on the maneuvering speed? _____
 21. What is the stall speed with full flaps (V_{S0})? _____
 22. What is the stall speed with full flaps and a 60° bank angle? _____
 23. What is the maximum crosswind component for your aircraft? _____
 24. What is the purpose of flaps? _____
 25. What is the maximum speed for gear extension? _____
 26. What is an unsafe gear indication? _____
 27. What is the procedure for emergency gear extension? _____
 28. Is this aircraft approved for flight into known-icing conditions? _____
 29. What are the deicing and anti-icing systems on this aircraft? _____
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30. What are the power settings, fuel consumption, and true airspeed for performance cruise, 65% power, at 12000 feet and standard temperature?

RPM: _____

Fuel Consumption: _____

MP: _____

TAS: _____

31. What is the normal procedure accelerate-stop distance at max gross weight, 6000 ft, 30°C? _____
32. What is the short field accelerate-stop distance at max gross weight, 6000 ft, 30°C? _____
33. When are your passengers required to have their seat belts and shoulder harnesses fastened? _____
- _____
34. What is the highest altitude that a canula can be used to deliver oxygen? _____
35. What action do you take in the event of an autopilot malfunction? _____
36. When should a propeller be feathered? _____
37. What prevents the propellers from feathering on the ground? _____
38. Where is the cabin heater located? _____
39. How does the cabin heating system operate? _____
40. When must the cabin heater switch be set to the "fan" position, and for how long? _____
- _____
41. Which tank does the cabin heater draw fuel from? _____
42. What is the cabin heater fuel consumption? _____
43. Where is the battery located? _____
44. What is the electrical system voltage? _____
45. Does this aircraft have an external power receptacle? _____
46. What is the procedure when using external power for starting the engines? _____
- _____
47. What is the normal (ideal) cylinder head temperature? _____
48. What is the normal (ideal) oil temperature? _____
49. What is the normal (ideal) turbine inlet temperature? _____
50. Explain the proper procedures for leaning the mixture: _____
- _____
- _____
51. Explain how to handle the "care and keeping" of your engines **on climb out** after departure. You should monitor:
 _____ and _____
52. List five actions you can take to counteract an over-heating engine: _____
- _____
- _____
53. Explain how to handle the "care and keeping" of your engines **on descent**. _____
- _____
54. When should cowl flaps be open? _____
 When should they be closed? _____
55. What does "shock cooling" mean? _____
56. How can you prevent shock cooling? _____

Reviewed by: _____ Date: _____