

Trade Winds Aviation
Reid-Hillview Airport
2505 Cunningham Ave.
San Jose, CA 95148
(408) 729-5100

Piper Archer III Ground Review Checklist

All available aircraft documents, such as Pilot Operating Handbook, Weight & Balance Data, Checklists, etc. can be used to complete this worksheet. After completion and review by Instructor, a copy should be made for the pilot's reference. The original should be placed in the pilot's record folder.

Pilot: _____ Aircraft Data Used: N _____

Date: _____

1. What is the fuel capacity? _____ g total/ _____ g usable/ _____ g 'to the tab'
2. How many tanks are there? _____ Capacity of each? _____ g total/ _____ g usable
3. What is the correct fuel grade? _____ Color? _____
4. Where are the fuel drains located? _____
5. When are they drained? _____
6. What is the recommended type and weight of oil? _____
7. Where do you find the proper weight of oil to used in Trade Winds aircraft? _____
8. At what level is oil added? _____
9. What is the aircraft empty weight? _____ Lbs
10. What is the useful load? _____ Lbs
11. What is the maximum takeoff gross weight? _____ Lbs
12. What is the maximum landing weight? _____ Lbs
13. What is the center of gravity range at max gross weight ? _____
14. List the following speeds:
Rotation _____ Normal Climb _____
Best Rate Climb _____ Best Angle Climb _____
Green Arc Range _____ Yellow Arc Range _____
Never Exceed _____ Normal Approach _____
Short Field Approach _____ Soft Field Approach _____
Stall: TO configuration _____ Stall: Landing Configuration _____
15. List the following speeds, part two:
Flap operating range _____ Stall; flaps down; 60° bank _____
Demonstrated crosswind _____ Maneuvering speed _____
Best glide _____
16. What effect does reducing gross weight have upon maneuvering speed? _____
17. What type of engine does this aircraft have?

18. How is carburetor ice detected? _____

19. What action should be taken?

20. What indicates Alternator malfunction?

21. What steps should be taken if the Alternator has failed?

22. What is the Go-Around (balked landing) procedure?

23. When is it crucial to turn-off the Air Conditioner and why?

24. List the steps required to fly direct to an airport using the GPS:

25. How can you find the nearest airport using the GPS?

26. What is the CDI button on the GPS used for?

27. Explain how to capture a specific altitude using the Vertical Speed Selector option on the Altitude
Pre-Select: _____

28. Given the following: 65% power, 5500 feet, Standard temperature, full tanks:
What is the required RPM? _____ TAS? _____
Fuel consumption? _____ Endurance? _____
29. What is the takeoff distance over a 50 foot obstacle under the following conditions:
Max gross takeoff weight, flaps 25, no wind, sea level, Standard temperature? _____
Max gross takeoff weight, no wind, 5000 ft. pressure alt., 100° F temp? _____
30. What is the landing distance over a 50 foot obstacle under the following conditions:
Max gross takeoff weight, no wind, sea level, 85° F temp? _____
31. What documents must be on board the aircraft? _____

32. What inspections are required on the aircraft?

Reviewed By: _____