

**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? \_\_\_\_\_

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32. What inspections are required on the aircraft?

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Reviewed By: \_\_\_\_\_