

PRE-RENTAL TEST Piper Cherokee PA-28-140/160

NAME _____

DATE _____

1.	MPH/KTS	Description	Airspeed Markings
	Vs0	/	/
	Vs1	/	/
	Vr	/	
	Vx	/	
	Vy	/	
	Vfe	/	/
	Va	/	
	Vno	/	/
	Vne	/	/
	Best Glide Speed		

2. Max Gross Weight _____

3. Fuel

Total _____
Usable _____
Usable Gals per tank _____ Usable Gals per tank at tabs _____
Grade for 160Hp engine _____ /Color _____
Fuel Burn per/hr @ 75% power _____
Weight of Fuel per/Gal _____
Day VFR reserve _____ min/ _____ /gals
Night/IFR reserve _____ min/ _____ /gals
Max Endurance with day VFR reserve at 75% power _____

4. OIL

Max Capacity _____ qts
Normal Range _____ qts

5. ENGINE

Make _____
Type _____
Max BHP _____
Max RPM _____

6. Fuel flows by:

- a. Gravity
- b. Electricity
- c. Vacuum
- d. Mechanical/Electrical

7. ELECTRICAL SYSTEM

Battery Volts _____ Amp/Hrs _____
Alternator Volts _____ Amps _____
Location of Battery _____
Explain how to start engine with EPU or jump start _____

-
-
8. If the oil pressure gauge does not begin to show pressure in _____(summer)_____(winter) seconds after engine start you should_____
9. Normal approach speed_____
- Normal approach (min) flap setting _____
10. Short/Soft field final approach
- Flap Setting_____
- Approach Speed_____
11. When using the tow bar for ground handling, never exceed_____degrees of center of nose wheel.
12. There are_____fuel drains.
13. What is the useful load_____?
14. When and Why do we use V_a ?_____
- _____
- _____
15. V_a guarantees us_____
- _____
- _____
16. What is the emergency procedure for engine failure in flight?_____
- _____
- _____
17. What aircraft documents must be in the aircraft?_____
- _____
18. For what two reasons are flaps deployed during approach and landing?_____
- _____
19. Name the four strokes in each engine cycle._____
- _____
20. How are most light airplane engines cooled? _____
- _____
21. What are two purposes of carb-heat?_____
- _____
- _____

22. What are the effects of having a too lean or too rich mixture? _____

23. Define the answers to question #22 and list the action on how to avoid these conditions.____

24. How often must a transponder be tested and inspected? _____

25. When must the ELT battery be replaced _____ and/or _____

26. How often must the static system be inspected and tested? _____

27. Who is responsible for and has the final authority to the operation of the aircraft? _____

28. SHORT FIELD TAKEOFF DISTANCE

Gross Wt. From question #2
 1000' Pressure Altitude
 70°F
 Hard Surface/No Wind

29. SHORT FIELD LANDING DISTANCE

Gross Wt. From question #2
 1000' Pressure Altitude
 70°F
 Hard Surface/No Wind

30. Complete Weight and Balance for flight

What is the CG? _____
 Do we fall into the operating envelope? _____
 If not what can we do to go on this flight? _____

 What is the new CG? _____