



PRINCIPAL AIR LTD

FLIGHT TRAINING / CHARTER

Name: _____

Date: _____

PIPER PA-28-151

This open-book exam is to familiarize the pilot with the Piper Cherokee Warrior, PA-28-151, and its corresponding POH. Refer to the POH as you complete the exam.

GENERAL SPECIFICATIONS

1. What is the minimum Takeoff Ground run in feet? _____
2. What is the minimum Takeoff Distance over a 50-foot obstacle? _____
3. What is the Best Rate of Climb speed? _____
4. What is the stall speed with flaps down (mph)? _____
5. What is the stall speed with flaps up (mph)? _____
6. What is the Gross Weight (lbs.)? _____
7. What is the Rated Horsepower? _____
8. What is fuel capacity? _____
9. What is the usable fuel capacity? _____
10. What is the minimum grade fuel? _____
11. What is the capacity of the oil sump? _____
12. What is the Maximum Baggage load? _____
13. What is the recommended tire pressure (mains)? _____
14. What is the recommended tier pressure (nose)? _____

DESCRIPTION AIRPLANE AND SYSTEMS

1. What are the four flap positions? _____
2. In what position(s) may the flaps be used as a step? _____
3. How are the flaps deployed? _____
4. How are the flaps retracted? _____
5. What is the fuel tank capacity in each wing? _____
6. What is usable fuel capacity in each wing? _____
7. Where is the tank selector control located? _____
8. Where are the fuel drains located? _____
9. Where is the gascolator located? _____

10. Where are the fuel quantity and fuel pressure gauges located? _____
11. Where is the battery located? _____
12. Where is the switch for the navigation lights located? _____
13. Where is the electric fuel pump switch located? _____
14. What is the function of the annunciator panel? _____
15. How is the ammeter system different from previous generator systems? _____

16. What does a "0" vacuum pressure indicate? _____

AIRPLANE FLIGHT MANUAL

1. What is Vne? _____
2. What is Vno? _____
3. What is Va? _____
4. What is Vfe? _____
5. What is Stall speed flaps up? (See pg. 3-7) _____
6. What is Stall speed flaps down? _____
7. What is the aircraft Max. Gross Weight (Normal Category)? _____
8. What is the aircraft Max. Gross Weight (Utility Category)? _____
9. Are intentional spins approved for this aircraft? _____
10. What is the demonstrated cross wind component for this aircraft? _____
11. What is the procedure for recovery from an unintentional spin? _____

EMERGENCY PROCEDURES

1. What is the procedure for engine power loss on takeoff?

2. What is the procedure for engine power loss at altitude?

3. What is best glide speed? _____
4. What is the recommended landing speed for the shortest landing? _____
5. What is the recommended procedure for open cabin door in flight?

6. What is most likely indicated by a partial loss of oil pressure? _____
7. What is the correct procedure for loss of fuel pressure? _____
8. What is the correct procedure for abnormally high oil temperature?

9. What is the correct procedure for loss of alternator output?

10. What is the most likely cause of rough engine running? _____
11. Why is it important to use full carburetor heat when icing is suspected?

WEIGHT AND BALANCE

1. What is the Max. Gross Weight of this aircraft? _____
2. What is the Useful Load of this aircraft? _____
3. What is the useful load with full fuel? _____
4. What is the useful load with full fuel in the Utility Category? _____
5. Who is responsible to ensure the aircraft is loaded properly before flight? _____
6. Calculate the C of G: front seat pilot and passenger: 320 lbs.; rear seat passenger: 175 lbs. ; baggage: 50 lbs.; fuel: as much fuel as possible _____
7. Is the aircraft within safe limits under the conditions listed in #6? _____

OPERATING INSTRUCTIONS

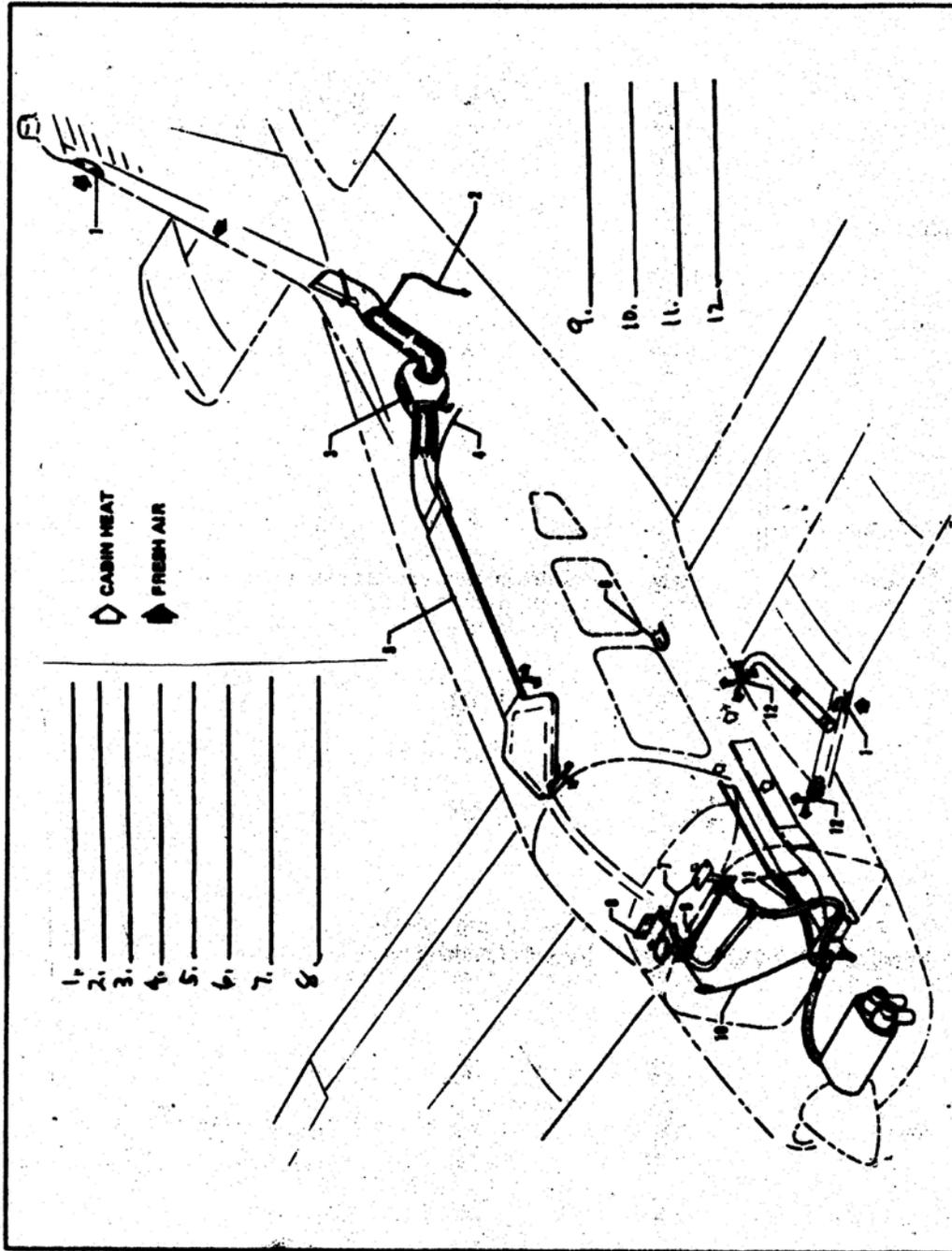
1. What is the recommended rotation speed for a normal takeoff? _____
2. What is the advantage to using flap on takeoff? _____
3. On short field takeoffs, what flap setting is recommended? _____
4. If any doubt exists as to the amount of power being used what mixture setting should be used? _____
5. Why is fuel tank selection at low altitude not recommended? _____
6. What position should be selected for the electric fuel pump during cruise? _____
7. What is the recommended approach with flaps up? _____
8. What is the recommended ground contact speed during landing? _____
9. What is the location of the ELT switch? _____

OPERATING TIPS

1. What is the recommended takeoff speed? _____
2. How may a pilot reset the alternator relay? _____
3. Why are extended and/or radical slips or turns not recommended? _____
4. Why is it important for the pilot to be familiar with the correct foot positioning? _____

PERFORMANCE CHARTS

1. What is the takeoff distance at an altitude of 5000' with OAT 15 degrees C? _____
 2. What TAS can be expected using 65% power at 4500'? _____
 3. What is the expected range (45 min reserve) using 65% power at 7000'? _____
 4. What is the expected range (45 min reserve) using 65% power at 4000'? _____
 5. What is the expected gliding range from 3500'? _____
 6. What is the expected total landing distance at 1000' density alt.? _____
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Heating and Ventilating System