



# PRINCIPAL AIR LTD

FLIGHT TRAINING / CHARTER

## CESSNA 152 TEST QUESTIONS

Name: \_\_\_\_\_

Date: \_\_\_\_\_

This open-book exam is to familiarize the pilot with the Cessna 152 and its corresponding POH. There are a number of variations of the C-152 and it is important that the pilot be familiar with the particular model he/she will be flying. Refer to the POH as you complete the exam.

1. What is the total fuel capacity? \_\_\_\_\_ gallons Usable? \_\_\_\_\_ gallons
2. What is the approved fuel grade(s) \_\_\_\_\_ colours? \_\_\_\_\_
3. Where are the fuel drains located? \_\_\_\_\_
4. When should the fuel be checked at the drains? \_\_\_\_\_
5. How should the fuel selector valve be positioned when refueling? \_\_\_\_\_
6. What is the prescribed oil quantity for normal flights of less than three hours? \_\_\_\_\_
7. What is the correct grade of oil to use? \_\_\_\_\_
8. What is the empty weight? \_\_\_\_\_ Max. certified gross weight? \_\_\_\_\_
9. What is the useful load? \_\_\_\_\_
10. What is the payload with full fuel? \_\_\_\_\_
11. How much fuel can be carried with a front seat load of 340 lb, and 25 lb of baggage?  
\_\_\_\_\_
12. What is the maximum demonstrated crosswind velocity (takeoff or landing)? \_\_\_\_\_
13. What is the maneuvering speed ( $V_a$ ) at gross weight? \_\_\_\_\_
14. What maximum airspeed can be maintained when penetrating turbulent air?  
\_\_\_\_\_
15. The C-150/152 is certified in the \_\_\_\_\_ category and is designed for limited aerobatic flight.



# PRINCIPAL AIR LTD

FLIGHT TRAINING / CHARTER

16. What is the recommended \_\_\_\_\_ List each airspeed  
airspeed (IAS) for:

Condition	Flaps	Airspeed	Best rate of climb (Vy) _____
Normal TO/climb	Up	_____	Best angle of climb (Vx) _____
Normal Landing	Up	_____	Max. flap extension (Vfe) _____
Normal Landing	Down	_____	Stall speed, clean (Vs) _____
En route climb, sea level	Up	_____	Stall speed, full flap (Vso) _____
Short-field takeoff/climb	Up	_____	Best Glide _____
Short-field landing	Up	_____	Maneuvering speed, gross wt. (Va)
Short-field landing	Down	_____	Never exceed (Vne) _____

17. What is the range in zero wind, @63% power at 5000ft, standard temp, with 15 gallons usable fuel and 30 minutes reserve? \_\_\_\_\_

18. What is the hourly fuel consumption (lean mixture) at 2500 ft. pressure altitude, standard temp. and 75% power? \_\_\_\_\_

19. What is the airspeed (indicated) for maximum gliding distance? \_\_\_\_\_ KTS

20. What are the symptoms of carburetor ice? \_\_\_\_\_

21. How do you prevent carburetor ice? \_\_\_\_\_

22. If carburetor ice is suspected in flight, what is the proper procedure? \_\_\_\_\_

23. What is the indication of alternator malfunction? \_\_\_\_\_

24. What is the procedure to restore electrical power? \_\_\_\_\_

25. What would you do if unable to restore the alternator? \_\_\_\_\_



# PRINCIPAL AIR LTD

FLIGHT TRAINING / CHARTER

26. In the event of vacuum pump failure, what flight instrument(s) would be lost? \_\_\_\_\_

27. What flight instruments would be lost if the static system was plugged up?  
\_\_\_\_\_

28. What is the procedure for engine failure immediately after takeoff? \_\_\_\_\_

28. Why is it important to lock the engine primer after use? \_\_\_\_\_

29. What aircraft documents must be on board during flight?

30. List the procedure for a balked landing (go-around). Assume a full flap landing.

31. List the procedures for engine failure at altitude.