

CESSNA SKYHAWK C-152
QUESTIONNAIRE

Critiqued to 100%

Pilot Name: _____

Date: _____

1. The C-152 is powered by a (manufacturer and model) _____, air cooled, horizontally opposed engine that delivers _____ HP at 2,550 RPM.
2. The maximum fuel capacity is _____ gallons of _____ octane, _____ gallons are usable.
3. The maximum approved takeoff weight is _____ pounds.
4. Maneuvering speed (V_a) is _____ knots indicated airspeed at maximum gross weight. As fuel is consumed, maneuvering speed (increases / decreases).
5. The maximum structural cruising speed is (V_{no}) is _____ knots.
6. Normal flaps up glide speed is _____ knots.
7. The maximum demonstrated crosswind velocity is _____ knots.
8. The best angle of climb (V_x) is _____ knots, with lift off at _____ knots.
9. The best rate of climb speed (V_y) is _____ knots.
10. What is the appropriate setting for the transponder during taxi and run-up? _____.
When cleared for takeoff? _____
11. Cruise climb airspeed is _____ kts at _____ RPM at 2,000 feet.
12. The stall warning horn sounds at _____ knots above a stall speed.
13. Spins (are / are not) allowed in the flight school aircraft.
14. At a gross weight of 1,670 pounds, zero angle of bank, power off, full flaps stall speed is _____ knots. Stall speed under the above configuration in a 45 degree bank is _____ knots.
15. At the maximum approved takeoff gross weight, 40 degrees F, no wind, ground run distance required is _____ feet.
16. When is leaning accomplished when in cruise flight? _____.

17. With full fuel and oil, what is the maximum amount of weight for the pilot and front passenger allowable in N67495? _____ pounds.

18. The over voltage light illuminates. What are your actions?

20. The engine begins to run rough in normal cruise flight. What are the probably causes?

21. Approach speeds:

a. Flaps up: _____

b. Flaps down: _____

22. Normally slips ARE/ARE NOT permitted with flaps fully extended. Slips with up to _____° flaps are permitted.

23. Complete the following loading problem for a C-152, N67495. Use your weight and that of your instructor for your check flight.

	Weight	Arm	Moment
Licensed Empty Weight	1170.8		34.97
Pilot and Front Passenger		39	
Fuel – 24.5 Gallons	147		6.2
Baggage (Area 1)		64	
Total			

a. Aircraft IS/IS NOT within maximum gross weight limit.

b. NORMAL/UTILITY category

c. Aircraft IS/IS NOT in CG limits

24. The pilot checklist calls for checking _____ fuel sump drains. They are located:

25. Maximum total allowable loading in baggage areas 1 is: _____.
26. Oil capacity (in quarts) for the engine:
- Maximum capacity: _____
 - Minimum safe quantity: _____
 - Add oil when the cool oil level is below: _____
27. What do you do with clean fuel drained from the sumps? _____.
28. The expected, no wind glide distance at best glide airspeed from 4,000 feet is _____NMs.
29. The expected TAS @ 65% power on a standard day at 4,000 feet is _____ KTAS. The fuel burn rate at this setting is approximately _____ gph.
30. Engine pre-heating is accomplished when temperatures are below _____. During cold weather starting, the rotating beacon is _____.

Memorization Items

- _____ V_a -Maneuvering speed at max gross weight
- _____ V_y -Best rate of climb speed
- _____ V_x -Best angle of climb speed
- _____ Landing Approach Speed
- _____ Normal approach – flaps up
- _____ Best Glide Speed (no flaps)
- _____ Maximum Window Open speed
- _____ Maximum Demonstrated Crosswind
- _____ Usable Fuel