

AIRPLANE QUESTIONNAIRE

Name: _____ Grade: _____ CAPID: _____
 Unit: _____ Date: _____
 Check Pilot: _____ Grade: _____ CAPID: _____
 Score: _____ Type/Model Aircraft: N9447L Cessna 172P

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: 100LL (Blue). 100 (Green).
2. Location/capacity of each fuel tank is: L/H & R/W Wings - 21.6 Gallons - Total = 43 Gallons.
3. Total usable fuel under all flight conditions is 40 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 3.8 hours.
5. What make and grade oil is used? Winter: 15-W50 Summer: 15-W50
6. Oil capacity is 8 quarts. Minimum oil quantity for take off is 6 quarts.
7. Minimum oil pressure is 25 psi psi. Maximum oil pressure is 115 psi .
8. Maximum oil temperature is 245 degrees (F or C) F .
9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 125 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2700 and NA in/Hg.
11. Maximum gross takeoff weight is 2550 pounds. Empty weight is 1498 pounds.
Useful load is 1052 pounds. Maximum landing weight is 2550 pounds.
12. Baggage compartment locations/weights are: Area 1 = 120. Area 2 = 50. Combined Weight - 120.
13. Give the IAS at maximum gross weight for:

a. Va (maneuvering speed).	<u>105</u>	e. Vx (best angle of climb, sea level).	<u>62</u>
b. Vso (stall, landing config, power. off).	<u>46</u>	f. Vmc (minimum control speed – multi-engine only).	<u>NA</u>
c. Vs1 (stall, cruise config, power. off).	<u>51</u>		
d. Vy (best rate of climb, sea level).	<u>76</u>	g. Best glide speed.	<u>65</u>
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff.

Airspeed 70 KIAS (Flaps Up), 65 KIAS (Flaps Down), Mixture - Idle Cut OFF, Fuel Selector Valve OFF, Ignition Switch OFF Wing Flaps AS REQUIRED Master Switch OFF Doors Unlocked Land Straight Ahead

Airplane Questionnaire (Continued)

15. Normal takeoff flap setting is 0 , short field takeoff setting is 10 , and soft field takeoff flap setting is 10 .

16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.

17. Given: PA = 4,000 feet; Temp = 86^o F; Runway 27; Wind 320^o at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.

Find: Total takeoff distance to clear a 50-foot obstacle: 2520 Feet

18. Given: PA = 6,000 feet; Temp = 68^o F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

Find: Total landing distance to clear a 50-foot obstacle: 1510 Feet

19. Landing runway 22; wind 190^o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? No