

Arrow AIRCRAFT Test FMFA, Inc -- Ft Meade, MD (KFME)

Pilot: _____

Date: _____

Complete this open book questionnaire using the Flight Manual/POH/Checklist. If a question or part of a question is not applicable, write in NA. Your flight instructor will review and grade the questionnaire. Minimum passing score is 80% (No more than 6 wrong). The completed questionnaire will be filed in the pilot's personnel file (PF) by appropriate personnel once the date of this questionnaire has been entered into the FMFA, Inc. Dispatch System.

1. This aircraft contains 3 fuel drains/sumps and approved fuel grades and colors are _____
2. What are the symptoms of carburetor ice for this aircraft? _____
3. Total useable fuel under all flight conditions is _____ gallons; _____ gallons to tabs, if appropriate.
4. What are the conditions for the fuel selector? ON / OFF / RIGHT / LEFT / BOTH (Circle Appropriate)
5. Endurance at 75% power at 6000 ft PA with a 1-hour reserve is 4.6 hours with Std Conds. _____
6. Oil capacity is _____ quarts (Min / Max) for flight. **Note: Mechanic recommends 5.5 qts optimum**
7. Air pressure for tires is _____ lbs/in² (Mains / Nosewheel).
8. The POH Acceptable vacuum gauge readings are _____ in (Hg).
9. The maximum rated power of the engine is _____ HP.
10. The aircraft engine is (carbureted, fuel injected).
11. Magnetos are checked at _____ RPM. RPM drop should not exceed _____ RPM on either magneto or _____ RPM differential between magnetos.
12. Maximum Gross Takeoff Weight is _____ lbs.
13. Maximum baggage compartment weight is _____ lbs.
14. The ammeter does / doesn't indicate battery discharge. (Circle appropriate)
15. The battery for this aircraft is _____ volts.
16. Complete table for aircraft depicted below.

FAA Tail No.	N780FM	/	Color	W/B/R	
Flight Plan Designator	P28R/G	/	Useable Fuel	72.0	gal
Year of Manufacture	2002	/	Make/ Model	PA-28R-201 ‡	
	#	Weight	Arm	Moment	
Basic Empty	9/23/09		86.545		
Fuel (gal)	72.0	432.00	95.000	41040.00	
Pilot		200.00	80.500	16100.00	
Copilot		200.00	80.500	16100.00	
Passenger 1		0.00	118.100	0.00	
Passenger 2		0.00	118.100	0.00	
Baggage		15.00	142.800	2142.00	
		Weight	Arm	Moment	
Ramp		2681.50	87.320	234149.10	
Gear Retraction Moment				819.00	
Takeoff		2670.50	87.624	233999.10	
No Fuel		2249.50	86.209	193928.10	

17. The aircraft table above indicates that it is IN / NOT IN weight & balance limits (Circle)
18. The stall warning horn in this aircraft will work without electrical power (YES/NO)
19. When jumpstarting this aircraft, the master should be OFF when cranking the engine (YES/NO)
20. Flaps are hydraulic/electrical/manual (Circle) with flap settings of _____
21. Slips are not recommended in this aircraft in what configurations? _____

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22. Give indicated airspeeds in Kts for:

- a. V_a _____ b. V_{so} _____ c. V_{s1} _____ d. Appch Speed@40 deg flaps > _____ e. Best Glide _____
f. V_{NE} _____ g. V_{NO} _____ h. V_{FE} _____ i. V_{LE} _____ j. Max Landing Gear Retraction Speed _____ k. V_Y gear up, flaps up _____
l. V_Y gear dn, flaps up _____ m. V_X gear up, flaps up _____ n. V_X gear dn, flaps up _____

23. Give the immediate action/memory items for:

- a. Engine failure immediately after takeoff

- b. Engine fire and engine fails to start

- c. Engine fire in flight

- d. Electrical fire in flight

24. Given: PA = 2000 ft; Temp = 30 deg C; RWY 27; Wind 320@12; RWY is paved, level, and dry

Find: Total takeoff distance to clear a 50' obstacle at max takeoff weight _____ feet

25. Given: PA = 2000 ft; Temp = 30 deg C; Wind calm; RWY is paved, level, and dry

Find: Total landing distance to clear a 50' obstacle at max landing weight _____ feet

26. Maximum demonstrated takeoff/landing crosswind component is _____ KTS/MPH (Circle)

27. Will the maximum demonstrated crosswind component for this aircraft be exceeded for the following: Landing Tipton RWY 28; AWOS radio

reported wind 310@22G30? , _____

Corrected by: _____