

## AIRCRAFT KNOWLEDGE/PRE-SOLO TEST - C-172N

Nam	e: Date:							
	Use the POH to help answers the questions in this test. A copy of the POH can be found at //www.nwflightservice.com/rental							
1.	Maximum Gross Take-Off Weight Normal Category/Utility							
2.	What is the Maximum Ramp Weight Normal							
3.	Engine Max rated BHP@RPM							
4.	Maximum passenger and baggage load with full fuel							
5.	What type of oil is used							
6.	Minimum engine oil level Maximum engine oil level							
7.	Max Continuous RPM							
8.	Max Useable Fuel							
9.	Unusable Fuel							
10.	What type of fuel can be used and what color is it							
11.	How many Positions on the Fuel Selector							
12.	How many and where are the fuel Drains							
13.	Max Flap Travel							
14.	Location of Static Port							
15.	Is there an Alternate Static Source and if so where is it located							
16.	What instruments are affected if the Pitot tube is blocked?							
17.	What instruments are affected if the Static port is blocked?							
18.	What instruments are affected if the vacuum pump fails:							
19.	What is the Voltage and Amperage rating for the alternatorV,A							
20.	What is the Voltage rating of the BatteryV							
21.	What is the engine restart checklist in case of an engine failure in flight:							
 22.	What is the tire pressure for the main wheels psi  Nose wheel psi							
23.	What is the normal climb speed:							

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24.	What is the normal approach speed with full flaps:								
25.	Define the following airspeeds and their associated values:								
VNE:	VNE:Kts								
VNO: _									
VFE:  Kts (10 degrees flaps)  Kts > 10 Degree									
Vx:			Kts						
		Kts							
				Kts					
Vs1:Kts									
					) lbs)		Kts (1950 Lbs)		
							(Full Flaps)		
Front S Rear Se	eparate piece of pape			ke on to ke	ep Wei	ght and B	alance within limits:		
	Fuel Lt								
	Takeoff Weight		Moment		CG	i			
Given:	Departure GEG Te	emperature: 3	80°C 4	Altimeter so	etting:	29.72	Wind Calm		
27.	Calculate Takeoff Distance over 50' obstacle:								
28.	If climbing to 6500' list the Time/Distance/Fuel to reach Top of Climb: MinutesMilesGallons								
29. Tempe	rature:	·		·		ude if you	u use 2400 RPM at Standard		
% BHP	True Airsp	eed	Fuel Rate		GPH				
-		eed and how	far can yo				ated from the weight and balance daytime Fuel Reserve.		
Ground	l Speed:		I	Distance: _		Nm			
31.	What is the landin Feet	g distance ov	er a 50' ol	ostacle (Fie	ld eleva	ation 3000	0', Temp 30° C, Wind calm)		
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