

# Aircraft Checkout Written Test: C-172N (1355F) CHI Aerospace (Sept 2021)

Pilot Name:	Date:
Instructor:	
I - Airspeeds (KIAS)	
VS0 VS1 VR VX	VY
VA @2300# VA @1600# VFE	
VNO VNE	
Short Field VR: Max Allowable Short Field T/	O Flap setting:
Cruise Climb Speed:	
Approach Speed (Flaps Full) : Short Field	Approach Speed (Flaps Full):
Max cross wind component :	
II - Fuel and Oil	
Total Fuel: Gallons lbs	
Total Usable Fuel: Gallons lbs	
Total Unusable Fuel: Gallons lbs	
What are the approved fuel grades for the aircraft?	
How many fuel sumps are there on the aircraft?	
What is the max fuel burn in GPH?	
What are the minimum reserve fuel requirements for o	
VFR Day:	
VFR Night:	
IFR:	



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How would you monitor your fuel burn?
The engine has an oil capacity ofquarts total,quarts in sump, and
quarts are considered minimum for normal flight. Fill toquarts for extended flights.
Minimum oil pressurepsi; Normal: psi; Maximum oil pressure ispsi.
What type of oil does this aircraft use?
III - Weight and Balance
Basic Empty Weight: lbs
Useful Load: lbs
Maximum Ramp Weight:lbs
Maximum Take-Off Weight (MTOW):lbs
Maximum Baggage Weight; Area 1lbs, Area 2lbs, Area 1+2 combinedlbs
Weight of Oil:Ibs per quart
Max Forward CG at MTOW:inches
Max Aft CG at MTOW:inches
IV - Aircraft Systems
What type of propeller does this aircraft have? Number of blades? Type?
What is the cold start procedure for this aircraft?
What is the warm start procedure for this aircraft?



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What is the flooded start procedure?

How is fuel supplied to the engine?
Does the airplane have an electric fuel pump?
Is the aircraft carbureted or fuel injected?
What is the proper procedure for leaning the mixture?
After performing your cruise checklist and leaning the aircraft, approximately what should your Fuel Burn be? Pressure Altitude: 6,000ft Temp: Standard RPM: 2500 Fuel Burn:gph  Describe the engine. Make, model, cylinders, etc
What is the engine horsepower and at what RPM?
Electrical systemvolt; Alternator current isamps; Battery voltage isvolts.
How many batteries does this aircraft have?
Where is the Main Battery located?



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How is the alternator checked during the engine run-up before takeoff?

What would alert you to an alternator failure?
Where is the static port located? Is there more than one? If so, how many and where are they?
Where is the alternate static source located?
What type of landing gear system is on the aircraft?
What type of flaps does the aircraft have?
Flap range approved for takeoff:
Flap setting for short-field takeoff:

#### **V** - Emergency Procedures

What is the correct spin recovery procedure for the aircraft?



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What is the proper procedure for remedying engine roughness and/or power loss in flight? Carb Icing: Spark Plug Foul: Magneto Malfunction: Low Oil Pressure: What is the emergency procedure for engine loss during cruise flight? What are the corrective actions taken when there is an excessive rate of charge on the ammeter? What are the corrective actions taken when there is an excessive rate of discharge on the ammeter? IF LOW VOLTS REMAIN: What action should the pilot take in the event of an engine fire during engine start? What action should the pilot take in the event of an engine fire during flight?

What is the procedure for a balked landing (go-around)?



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#### **VI - Performance & Weight and Balance Computations**

CFI weight: lbs	
Pilot's weight: lbs	
Fuel: gallons =	lbs
Baggage: lbs	
Weight and Balance Computation	:
Total weight: lbs	
Total moment: in-	lbs
Where is the center of gravi	ty? Does it fall within the CG envelope?
Using the following conditions, co	ompute the takeoff and landing distance over a 50 ft obstacle:
Today's temperature:°	°C
Surface wind: degrees	s at knots
Altimeter setting: in H	g
Pressure altitude: fee	t
Takeoff distance over a 50' obstac	ele: feet
Landing Distance over a 50' obstacle: feet	
Per CHI policy, what are the runw	vay minimums for this aircraft?
Length:	Surface:
TEST CORRECTED TO 100%	
Instructor Signature and CFI # :	
Pilot Signature:	Date: