

Name: Date:

Ercoupe 415-C Pre-Solo Exam

1.	How many gallons per hour does the Ercoupe burn at normal cruise?
2.	What is the total Fuel Capacity (both wings) of the Ercoupe, and how many gallons are usable? Based on Question 1, what's your endurance (no reserve) in hours and minutes?
3.	What is the maximum gross takeoff weight?
4.	What is the Useful Load?
5.	What is the maximum allowable weight for pilot, passengers and baggage (assume full fuel)?
6.	What is the demonstrated cross-wind component?
7.	What grade of oil is used in the Ercoupe at CHI Aerospace?
8.	What is the safe operating range of engine oil, in quarts?
9.	What Octane or Grade Fuel are we using in the Ercoupe?
10.	What color is this fuel?
11.	What is the maximum continuous operating power (RPM)?
12.	Where are the fuel-sump drains located?
13.	During the pre-takeoff magneto check, what is the maximum allowable drop in RPM?

14. When is it app.	ropriate to	use carburetor heat?		
Does (Carburetor	Heat lean or enrich the mixture? Why	?	
Why is	s it require	d that the Carburetor Heat be closed for tax	xi?	
15. Fill in the V-Sp	peed defini	tions and corresponding values for the Erc	oupe:	
		Definition	Airspeed]
	$ \begin{array}{c c} (V_{so}) \\ \hline (V_{s1}) \\ \hline (V_r) \end{array} $	Stall in Specified Configuration	N/A	- - -
	(V_x)]
	(V_y) (V_{fe})	Flore Extension Speed	N/A	
	(V _a)	Flaps Extension Speed	IN/A	-
	(V _{no}) (V _{ne})			1
		f carburetor icing and under what condition regarding flight as a student pilot;	ns might you expect t	his occurrence?
Carriage of pas	ssengers:			
Carriage of car	go:			
Flight above cl	loud layers	::		
19. Explain the rec	quirements	for use of safety belts and shoulder harnes	sses.	
20. According to the	he FARs, 1	no person may operate an aircraft so as to c	ereate a(n)	·
21. What personal	document	s must you have on board the aircraft, as a	student pilot, during	any solo flight?
22. What documer	nts are requ	nired to be on board whenever the aircraft i	s in operation?	
23. Who has final	authority a	and responsibility for the safe operation of	the aircraft when a st	udent is in solo flight?
24. Describe what	might be o	considered careless or reckless operation of	f an aircraft.	

26. Who has the right-of-way when two aircraft are on final approach?
27. Describe the Go-Around Procedure for the Ercoupe.
28. What actions are required if you are overtaking a slower aircraft? Who has the right-of-way?
29. Who has the right-of-way when you are on the 45 entry and there is a departing airplane remaining in the pattern?
30. What happens to stall speed as angle of bank increases in level flight? What is the maximum bank angle in the pattern?
31. What are the <u>minimum</u> altitude requirements for flight over a congested area?
32. What are the minimum cloud clearances for flight in Class C, D & E airspaces?
33. What are the usual dimensions of Class "D" airspace?
34. What are the requirements for entering the Portsmouth (Pease) Class "D" airspace?
35. Under what conditions can a Student Pilot land at an airport, other than Portsmouth Airport?
36. What maneuvers, other than those demonstrated and authorized by your instructor, are you allowed to practice while in solo flight? What are the minimum altitudes for recovery that your instructor has set?
37. What are a few things you've been taught to do in the Ercoupe if you are slightly high on approach?
38. What is your takeoff briefing?

25. List 5 reasons to execute a Go-Around Procedure:

Diagram the Portsmouth Airport traffic pattern and fill in the altitude and appropriate power setting values and
airspeeds for each leg.