PA28-180

				Phase 1: Pre-Flight
Valley Fliers 1402 Auburn Way North, #223		Nam	ne:	
		Certificate Numb	er:	
Instructo	r:	Certificate Typ Rating	be: gs:	
Check O	ut Date:	Total Flight Time:		Last 90 Days:
Club che	ck out is in two phases: Phas	e 1 – Pre-flight. Pha	ase	2 – Flight.
This is an check out. the line ne	open book check out. The aircraf . Read the question and the possi ext to the question.	t's documentation will I ble answers, then print	be i the	required to complete the Phase 1 e letter of the most correct answer on
1	The maximum take-off weight of N category is:	5163S in the normal	a. b. c.	2300 pounds 2400 pounds 2250 pounds
2	The empty weight of N5163S is:	a I O	a. b. c.	1457.3 pounds 1328.3 pounds 1412.4 pounds
3	The useable fuel capacity of N516	3S is:	a. b.	45 gallons total, 36 gallons to tabs 36 gallons total, 36 gallons totas

What is the total engine oil capacity and, except for an

The maximum allowable weight that can be placed in

Each fuel tank has an individual quick drain located at

the inboard rear corner of the fuel tank. Where is the

N5163S has a modified fuel selector valve cover.

Selection options are Left tank, Right tank and Off.

How is the selector valve moved to the off position?

The first indication of carburetor ice in an aircraft with a

normally aspirated engine in cruise flight with a fixed

The normal leaning procedure, using an exhaust

temperature gage (EGT), is to set the engine up for

cruise power, lean the mixture until engine RPM peaks,

fuel strainer drain located?

pitch propeller is:

the baggage area in normal category operations is:

extended flight, when should oil be replenished?

- c. 50 gallons total, 36 gallons to tabs
- **a.** 6 gts, 4 gts minimum, fill to 6 gts.
- b. 8 qts, 6 qts minimum, fill to 7 qts.
- c. 6 qts, 4 qts minimum, fill to 5 qts.
- a. 200 pounds
- **b.** 135 pounds
- c. 120 pounds
- a. Under the belly
- **b.** Under the engine
- c. On the front lower left of the firewall
- a. Rotate the selector counter-clockwise
- **b.** Rotate the selector clockwise

c. Depress the button on the selector cover, hold it while rotating the selector to the off position

- a. A gradual decrease in RPM
- **b.** A sudden decrease in RPM
- c. Rough running engine and RPM loss
- a. Enrich the mixture until EGT drops 50 degrees
- **b.** Leave the mixture at peak EGT
- c. Lean the mixture another 25 degrees

Updated: 9/5/2008

then:

4. __

5. _____

6. ____

7. ___

8. ___

9. ___

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10	Flaps may be lowered at airspeeds up to 115 MPH, however it is desirable to have the airplane at a slower speed before extending flaps because:	a. b. c.	You have better pitch control There are lower flap operating loads There is better visibility over the nose
11	Trim for take-off so that a very light back pressure is required at the best rotation speed for take-off under normal conditions. The normal rotation speed is:	а. b. c.	65 MPH 50 to 60 MPH 55 to 65 MPH
12	When should the electric fuel pump be turned on?	a. b. c.	For a cold start For a cold start and take-off For starting, take-off, approach and landing, and when switching tanks
13	The airspeed indicator in N5163S registers in:	a. b. c.	KPH MPH KTS
14	What is the maximum <u>demonstrated</u> cross wind component of a PA28-180F?	a. b. c.	18 MPH 12 MPH 20 MPH
15	The distance to clear a 50 ft. obstacle in a maximum effort, no wind, 2400 lb. gross from a paved runway at sea level with a temperature of 15 C (59 F) and altimeter setting of 29.92" is:	a. b. c.	1525 feet 1340 feet 1625 feet
16	For a normal landing the airplane should be trimmed to an approach speed of 85 MPH with the flaps up, and the approach speed should be reduced 3 MPH for each notch of flaps. Which statement is correct concerning pattern and approach speeds?	a. b. c.	100 MPH down wind, 90 MPH on base and 82 MPH final with 25° flap 100 MPH down wind, 90 MPH on base and 82 MPH final with 40° flap 100 MPH down wind, 90 MPH on base and 79 MPH final with 25° flap
17	What engine setting would produce the closest performance to 75% brake horse power at 5,000 feet on a standard day?	a. b. c.	2600 RPM, for 9.9 gallons/hour 2625 RPM, for 9.9 gallons/hour 2585 RPM, for 9.9 gallons/hour
18	What is the recommended tire pressure for the main gear tires?	a. b. c.	29 psi on 6.00 x 6 tires 24 psi on 6.00 x 6 tires 30 psi on 6.00 x 6 tires
19	What is the recommended tire pressure for the nose gear tire?	a. b. c.	31 psi on 6.00 x 6 tire 32 psi on 6.00 x 6 tire 24 psi on 6.00 x 6 tire
20	What power setting and airspeed is recommended for a cruise climb?	a. b. c.	Full throttle and 100 MPH Full throttle and 70-90 MPH Full throttle and 60-75 KTS
21	What power setting is recommended for cruise flight?	a. b. c.	2150-2300 RPM, but no > than 65% 2200-2700 RPM, but no > than 75% 2290-2640 RPM, but no > than 75%
22	Prior to approach and landing, the fuel selector valve should be:	a. b. c.	Turned to the right tank to prevent siphoning Remain on "Both" Turned to the fullest tank
23	What is the approved flap range for take-off?	a. b.	0 to 10 degrees Flaps not recommended for take-off

c. 0 to 25 degrees

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24. ____ The Piper Cherokee main and nose gear uses an oleo support strut. During pre-flight which statement best describes the airworthiness of the landing gear struts?

- a. They can be flat as long as soft field take-off and landings are used
- **b.** A minimum of 3" extension is required before flight
- **c.** They must all be inflated to the exact same height

25. Using the POH manual's loading graph and center of gravity moment envelope for N5163S, calculate the gross weight and CG for the following:

Item	Weight	Arm	Moment (in.lbs.)
Empty Weight			
Oil – 8 quarts			
Front Seats	320		
Rear Seats	285		
Fuel – 36 gallons			
Baggage Area	60		
Total Weight and Moment		CG=	

26. Using the POH manual's loading graph and center of gravity moment envelope for N5163S, calculate the gross weight and CG for the following:

ltem	Weight	Arm	Moment (in.lbs.)
Empty Moight			
Oil – 8 quarts			
Front Seats	375		
Rear Seats	Empty		
Fuel – 50 gallons			
Baggage Area	15		
Total Weight and Moment		CG=	

27	What airspeed produces the best glide for an engine out glide?	a. b. c.	100 MPH IAS 65 MPH IAS 80 MPH IAS
28	What is the stalling speed in a 60 degree bank with full flaps at the most rearward CG?	a. b. c.	65 MPH IAS 81 MPH IAS 95 MPH IAS

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Check Out

29.	Provide the	e following airspeeds (IAS):		
	Va Vno Vne Vy Vx Vfe Vs1 Vso	Design maneuvering speed Maximum cruise speed Never exceed speed Best rate of climb speed Best angle of climb speed Maximum flap extension speed Power off stall, flaps up Power off stall, flaps down		
30	The cockpi be secured airplane is the cockpit	it door has two latches. The upper latch must d by the pilot for the flight and when the secured on the ground to avoid rain water in t. If the door opens during fight, you should:	a. b. c.	Land immediately before the door blows off Have your passenger hold the door shut If you are not in a position to make a normal landing: slow the airplane to 100 MPH, close the cabin vents, open the pilot vent window, if the upper latch is open, latch it. If the lower latch is open, undo the top latch, push the door further open and then close rapidly and latch top latch. It is permissible to slip in the direction of the open door to assist in the latching procedure.
31	The easiest way to ground handle this aircraft is to use the tow bar. What is the tow bar turning angle limit?		a. b. c.	Do not exceed 30 degrees from center To the limit where it will turn no further Do not exceed 22 degrees from center
32	Where is the emergency locator transmitter (ELT) located?		a. b. c.	Behind the baggage compartment, just aft of the battery Behind the baggage compartment In the baggage compartment, near door
33	How is the	ELT armed in this aircraft?	а. b. c.	A switch on the unit's case It is always armed A switch on the instrument panel, left side
34	Where is th	he battery located?	a. b. c.	Behind the baggage compartment Behind the engine, on the firewall Under the rear seats
35	What is the	e voltage of the electrical system?	a. b. c.	 14 volt 60 amp generator, 12 volt battery 28 volt 60 amp alternator, 24 volt battery 12 volt 60 amp alternator, 12 volt battery
36	Does N516	63S have a radio (avionics) master switch?	a. b. c.	No, shut off each radio individually Yes, for comm radios only Yes, individual switches can be left on
37	What engir	ne RPM is used for a magneto check?	а. b. c.	2000 RPM 1700 RPM 2300 RPM

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38	When should carburetor heat be applied in the approach and landing phase?	a. b. c.	When there is an indication of carburetor icing When you do the GUMPS check on down wind When the engine is throttled down to idle before touchdown
39	What is the normal engine RPM operating range at sea level?	a. b. c.	2200-2500 RPM 2000-2600 RPM 2290-2500 RPM
40	When is the manual engine fuel primer used?	a. b. c.	For normal engine starting When the engine does not fire within 5 to 10 seconds When the engine is cold
41	What minimum fuel grades (octane) are authorized for use in N5163S?	a. b. c.	AV 80/87 AV100LL AV 80/87 and Mogas
42	To act as pilot in command of this aircraft, you must be rechecked in the aircraft:	a. b. c.	Every Bi-Annual Every year If you have not flown a like aircraft in the preceding 90 days or when deemed by the Club
43	Who is responsible for the aircraft documentation that must be on board the airplane before flight?	a. b. c.	The maintenance officer The pilot in command The safety officer
44	Who is responsible for cleaning the airplane interior and windows after a flight?	a. b. c.	The next user The cleaning crew The pilot who just completed the flight
45	Who is responsible for installing the control lock, securing the tie-downs and locking the aircraft's doors and windows?	a. b. c.	The maintenance officer The person assigned to ramp duty The pilot who just completed the flight
46	Who can perform any maintenance or modifications on club aircraft?	a. b. c.	Any Club member on the active list Anyone with a pilot's license, except students The maintenance officer or his designee
47	Who can instruct in club aircraft?	a. b. c.	Affiliated instructors approved by the board Any instructor appointed by an associate An instructor hired by the member
48	In order to complete a check out in the PA28-180, a club member must complete:	a. b. c.	A club authorized check out A check out from an FBO A check out form signed by any instructor

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Phase 2: Flight

Valley Fliers 1402 Auburn Way North, #223 Auburn WA 98002	Name:	
	Certificate Number:	
Instructor:	Certificate Type: Ratings:	
Check Out Date:	Total Flight Time:	Last 90 Days:

Club check out is in two phases: Phase 1 – Pre-flight. Phase 2 – Flight. The Phase 1 check out should be completed and discussed prior to the Phase 2 check out.

Flight Review			Instructor initials indicating
			satisfactory performance – refer to
			applicable PTS
Ι.	Pre-Fligh	nt Inspection	
<u> </u>	Check Li	st and Pre-Start Procedures	
.	Starting	Engine	
IV.	Normal [Departure Operations	
	а.	Taxing	a
	b.	Pre Take-off Checks	b
	с.	Normal Take-off	C
	d.	Climb – appropriate power settings	d
	e.	Cruise – appropriate power settings	e
۷.	Air Work		
	а.	Steep Turns	a
	b.	Flight at Minimum Controllable Airspeed	b
	с.	Stall Recognition and Recovery	C
	d.	Recovery from Unusual Attitudes by reference to instruments	d
	e.	Simulated Emergency Descent	e
VI.	Normal A	Arrival Operations	
	а.	Descent and check list procedures	a
	b.	Normal landings	b
VII.	Pattern \	Nork	
	а.	Cross wind take-off and landing	a
	b.	Short field take-off and landing	b
	с.	Soft field take-off and landing	C
	d.	Go arounds	d
	e.	Zero Flap landing	e
VIII.	After Lar	nding and Post-Flight Procedures	
IX.	Remarks	S.	

Overall Completion of Transition Phase 1 – Ground Instruction Hours of ground instruction completed:	n or Original Aircraft Check Out Phase 2 – Flight Review Hours of flight instruction completed:			
Instructors signature:	Instructors signature:			
Certificate number:	Certificate number:			
Expiration date:	Expiration date:			
I have received training to operate a Piper PA28-180 aircraft and completed the ground and flight training noted above				

Pilots signature:

Date: _