Checkout Test

1. List the following airspeeds and their definitions, as well as how they are placarded if applicable:

Abbreviation	Airspeed (kts)	Definition	How placarded (if applicable)?
V_{S0}	*55 mph*	*Ex. Stall speed landing configuration*	*Bottom of white arc*
V_S			
V_R			
V_X			
V_Y			
V_{FE}			
V_A			
V_{NO}			
V_{NE}			
V_G (best glide)			

2. The maximum RAMP gross weight of this airplane is _____

3. The maximum TAKEOFF gross weight of this airplane is _____

4. Fuel Capacity:
Max Capacity: _____ of which _____ is usable.
The minimum fuel you should take off with during the day is: _____
(Reference the POH and FARs)

5. Oil:
Max capacity: _____
Minimum to fly with: _____
Grade: _____

6. Calculate and plot the following with the accompanying table and chart:
The empty weight of the aircraft is _____lb
The empty CG of the aircraft is_____(in. or lb-in.)
The useful load with full fuel is_____lb
Point 1: Your Weight, 200 lb co-pilot, 35 gal fuel
Point 2: Your Weight, 200 lb co-pilot, and CALCULATE the max fuel
Point 3: Your Weight, 200 lb co-pilot, 15 gal fuel, and CALCULATE the max rear passenger

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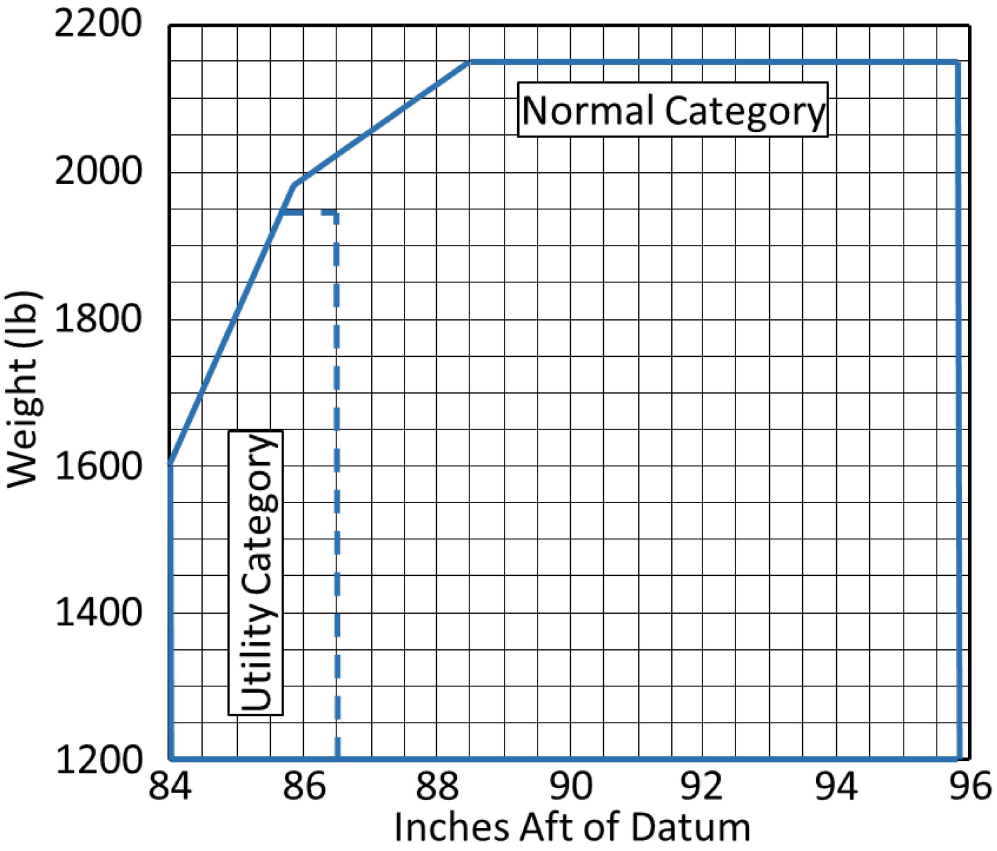
Item	Weight (lb)	Arm (inches)	Moment (in-lb)
Licensed Empty Weight		1	
Oil (8 quarts)		32.50	
Pilot and Front Passenger		85.50	
Passengers (rear seat)		117.00	
Fuel (50 gallons, 6 lb/gal)		95.00	
Baggage Area 1 (rear seat)		117.00	
Baggage Area 2 (100 lb max)		133.30	
Totals (2150 lb max)		----------	



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7. What is the maximum demonstrated crosswind component? _____

8. Describe how to listen on two separate frequencies.

9. Using the GTN650, describe at least two methods to change the standby frequency:

10. Describe one of the methods using the GTN650 to determine the the frequency for weather at your destination airport.

11. When should the electric fuel pump be used?

12. What is takeoff distance to clear a 50 foot obstacle (std day)?

13. What type of engine does the aircraft have?

    What is the engine horsepower?

14. Describe the procedures if an electrical fire occurs in flight.

15. Describe the procedure for landing without engine power in a field.

16. If engine power is lost at 6000 ft AGL, how far can you expect to glide in calm conditions at Vg?

17. How many sumps are in each wing?

    How many sumps are in the fuselage?

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18. What is the maximum allowable flap setting for takeoff?

19. Describe the difference between standby, ON, and ALT on the transponder.

20. At a normal cruising altitude of 6000ft pressure altitude, standard day, and 2300 rpm, what are the following:

Knots True Airspeed:_____
Fuel Burn (gph):_____
Fuel Burn (nm/gal):_____

23. Are spins authorized?

Instructor_____ Student Signature_____
Instructor Signature_____
Date of Review/Logbook Endorsement_____