

Scenario:

It's your Grandma's birthday and she has invited you to a family party in _____. You recently completed your PPL and Grandma wants to go for an airplane ride. You have been busy with AP exams and have not flown for 6 weeks. You plan to take your Mom from _____ to _____. She is your first passenger. You plan to rent a brand new aircraft at the FBO for this flight. The aircraft has advanced avionics that you have not yet used and you are eager to try it out.

You are planning to carry full fuel for this flight. You have 20 pounds of baggage.

You begin your preflight and find a sticker on the dash with a message from the maintenance chief that the 100 hour inspection was just completed and that you should make sure all documents are on board. During the preflight inspection you notice that the nav light on the right wing is inoperative and the nose wheel tire seems low on air. You report this to the manager of the FBO.

The FBO manager asks for your pilot credentials as he needs to update the new computer system before you can check out the aircraft. He also advises that the nose tire has been corrected however the nav light is now marked as inoperative.

On the morning of the flight you wake up to fog and reduced visibility outside. You turn on the TV for a weather update and the forecast is for conditions to improve at the time of your departure. You are concerned about visibility en route due to potential fog forecast. While you are waiting for the issues to be resolved you decide to get your weather briefing and file a flight plan. The TAF for the _____ (departure airport) area calls for marginal VFR to continue till 1400Z which is an hour after your planned departure time. Conditions improve to VFR after 1400Z. This is due to weak warm front passing through the area. The TAF for your destination calls for a cold front passage prior to your arrival time. There is a 40 percent probability that the cold front will stall over your destination airport at your ETA.

Your Grandma calls and asks if you can hurry as everyone is excited to see you. You present your flight plan to the FBO dispatcher for verification.

The FBO dispatcher asks if you are aware of a pop up TFR along your proposed route of flight. He reminds you to check notams. Your route brings you close to a proposed TFR. You are uncertain about the time that the TFR is active.. Due to weather you might have to descend to maintain cloud clearance.

You arrive at _____(your departure airport) on the morning of departure and see that your mom has brought her friend Diane who she would like to take along for the flight. Diane weighs 140 pounds and has 20 pounds of baggage . Work out a New W & B. Effects of fwd and aft CG ? Include Takeoff and landing distance (TOLD).

For the actual flight please prepare a weight and balance with your weight, my weight (152 pounds) and fuel on board.

Assignments:

1. Nav log for the entire flight. Please do not use a fore flight printout. (the nav log uses true course and Fore flight provides magnetic course). You will be required to use dead reckoning and pilotage to the first 2 nav fixes.
2. 2 weight and balance calculations for the scenario. One with you and your mom. Second with you, Mom, and Diane..
3. A separate weight and balance for the actual Checkride flight with me (152 lbs) as passenger.
4. Takeoff and landing distance calculation for the day of departure (you and I and 20 pounds of bags in the rear passenger seat area)
5. Your departure and destination airports will be provided in a separate email

If these are done early please feel free to send them back to me.

Please make sure your logbook is totaled and all the maintenance logbooks are in possession for us to begin the Oral portion of the Checkride.

Any questions ? Please email me at minnesotadpe@gmail.com

Regards

Sanjay S Sujanani

