

PRE-SOLO XC KNOWLEDGE TEST [STAGE 2]



FLIGHT SCHOOL

NAME: _____

STUDENT CERT #: _____

CFI: _____

DATE : _____



This test includes a mix of multiple-choice and short-answer questions, covering regulations, safety, airspace, and navigation concepts. Please answer these questions to the best of your ability before you review them with your instructor.

1. **Under FAR 91.103, which of the following is the pilot required to be familiar with before any flight?**

- A) Weather reports and forecasts
- B) Runway lengths at airports of intended use
- C) Aircraft performance under existing conditions
- D) All of the above

2. **According to FAR 91.205, which of the following equipment is NOT required for VFR day operations?**

- A) Airspeed indicator
- B) Fuel gauge
- C) Directional gyro
- D) Altimeter

3. **What is the minimum visibility requirement for Class E airspace below 10,000 feet MSL under FAR 91.155?**

- A) 1 SM
- B) 3 SM
- C) 5 SM
- D) 7 SM

4. **FAR 91.151 requires a pilot to have enough fuel to fly to the first point of intended landing and then fly after that for: (under VFR day conditions)**

- A) 20 minutes

- B) 30 minutes
 - C) 45 minutes
 - D) 1 hour
5. **Under FAR 91.119, what is the minimum altitude a pilot may fly over congested areas?**
- A) 500 feet AGL
 - B) 1,000 feet AGL
 - C) 2,000 feet AGL
 - D) 500 feet above the highest obstacle
6. **Which of the following is NOT one of the factors in the PAVE checklist?**
- A) Aircraft
 - B) Pilot
 - C) Environment
 - D) Economy
7. **In the IMSAFE checklist, the "F" stands for:**
- A) Final Checks
 - B) Feelings
 - C) Fatigue
 - D) Food
8. **In Class D airspace, what is the minimum cloud clearance requirement?**
- A) 500 feet below, 1,000 feet above, and 2,000 feet horizontally
 - B) 1,000 feet below, 1,500 feet above, and 3,000 feet horizontally
 - C) Clear of clouds
 - D) 3,000 feet vertically and 5,000 feet horizontally
9. **What airspace requires a Mode C transponder within 30 nautical miles of its center?**
- A) Class B
 - B) Class C
 - C) Class D
 - D) Class G
10. **During dead reckoning, you calculate ground speed using:**
- A) True airspeed and wind direction/speed
 - B) Indicated airspeed and runway length
 - C) True course and magnetic variation
 - D) Magnetic heading and deviation
11. **What type of airspace surrounds major airports with heavy traffic and requires a clearance to enter?**
- A) Class B
 - B) Class C

- C) Class D
- D) Class E

12. **Which of the following is a common cause of spatial disorientation during cross-country flight?**

- A) VFR into IMC
- B) Leaning into a turn too late
- C) Flying at higher altitudes
- D) Failing to check NOTAMs

13. **You have planned to fly through Class C airspace. What must you do before entering?

- A) Request clearance
- B) Establish two-way communication with ATC
- C) File a flight plan
- D) Squawk 7600

14. **When diverting to an alternate airport due to weather, what should you calculate first?

- A) Updated ETA
- B) Distance to alternate
- C) Fuel remaining
- D) Course correction

15. **Which of the following is considered a risk factor in the PAVE checklist under "Environment"?

- A) Pilot fatigue
- B) Weather conditions
- C) Aircraft performance
- D) Personal fitness

☆☆☆☆☆SHORT ANSWER QUESTIONS☆☆☆☆☆

16. **Describe how you calculated your fuel requirements for the entire cross-country flight.

17. **What is your departure airport & your destination? What reasons led you to select your destination airport?

18. **Explain the importance of using the IMSAFE checklist before a flight.**

19. **How would you identify an emergency alternate airport while en route? What factors would you consider?**

20. **Explain why dead reckoning is a valuable navigation technique during cross-country flights.**

21. **What is your route of flight and what altitude(s) will you be flying at? Describe your reasoning for choosing your route and altitudes. Include terrain, airspace, and weather considerations.**

22. **What airports did you choose for your landings? Why?**

23. **How long do you estimate your trip will take total? Include the basis for your calculation.**

24. **How much fuel will this trip require? Will you need to stop for fuel?**

25. **How did you calculate your groundspeed during your flight planning?**

26. **What should you do if you find yourself in deteriorating weather conditions en route?**

27. **Describe how you would use pilotage in conjunction with dead reckoning during your flight.**

28. **What actions should you take if you are unable to contact ATC while in Class C airspace?**

29. **Explain how you will ensure that you remain compliant with the fuel requirements outlined in FAR 91.151.**



This test covers critical pre-flight planning and in-flight decision-making skills, ensuring students are well-prepared for their long solo cross-country.

By signing this Knowledge Test, I am acknowledging that I find this student's work and flight planning satisfactory. I have reviewed each question and answer with this student and have determined that she has received the appropriate ground training and is ready for the cross country solo per 61.109(a)(5)(ii).

CFI SIGNATURE: _____
EXPIRATION: _____

CFI #: _____

CHECK CFI SIGNATURE: _____
EXPIRATION: _____

CFI #: _____

SATISFACTORY? (Check Pilot) YES NO