

# PRESOLO KNOWLEDGE TEST

Airplane make/model: \_\_\_\_\_

1. List the airspeeds and their definitions for your airplane.

	Airspeed	Definition
V <sub>SO</sub>	_____	_____
V <sub>S1</sub>	_____	_____
V <sub>R</sub>	_____	_____
V <sub>X</sub>	_____	_____
V <sub>y</sub>	_____	_____
V <sub>FE</sub>	_____	_____
V <sub>A</sub>	_____	_____
V <sub>NO</sub>	_____	_____
V <sub>NE</sub>	_____	_____

2. The maximum ramp (gross) weight for your airplane is \_\_\_\_\_ lb.

3. The maximum takeoff weight for your airplane is \_\_\_\_\_ lb.

4. Fuel: Maximum capacity \_\_\_\_\_ gal. of which \_\_\_\_\_ gal. is usable

Grade \_\_\_\_\_

Color \_\_\_\_\_

Optional grades and colors \_\_\_\_\_

5. Oil: Maximum capacity \_\_\_\_\_ min \_\_\_\_\_ maxqt.



Grade \_\_\_\_\_

6. Compute the location of the center of gravity (CG) for a solo flight with full fuel in your airplane. Is the CG within limits?
  
7. What is the takeoff ground roll and the distance over a 50-ft. obstacle for your airplane at your airport with full fuel, a temperature of 29° C, 5-kt. headwind, and an altimeter setting of 29.64?
  
8. What is the ground roll and total landing distance over a 50-ft. obstacle for your airplane at your airport with full fuel, a temperature of 32° C, calm wind, and an altimeter setting of 30.1 O?
  
9. What are the indications of carburetor icing? When is carburetor heat recommended to be used in your airplane?



10. What are the radio frequencies used at your airport?

Clearance Delivery \_\_\_\_\_

ATIS \_\_\_\_\_

Ground \_\_\_\_\_

Tower \_\_\_\_\_

Approach/Departure \_\_\_\_\_

CTAF \_\_\_\_\_

UNICOM \_\_\_\_\_

FSS \_\_\_\_\_

11. At your airport:

- a. What runways are available?

- b. What is the direction of the traffic pattern for each runway?
- c. What is the traffic pattern altitude?
- d. In what class of airspace is the airport located (list from surface to 19kft)?

12. How do you enter and depart the traffic pattern at your airport?

13. What radio communication procedures are required at your airport?

14. Explain the procedures you would use to land at your airport if the communication radio(s) failed.

15. List the meaning of the following ATC light signals:

	In Flight	On Surface
Steady green	_____	_____
Flashing green	_____	_____
Steady red	_____	_____
Flashing red	_____	_____
Flashing white	_____	_____
Alternating red and green	_____	_____

16. What airplane certificates and documents must be on board your airplane prior to every flight?

17. What personal documents and endorsements must you have before beginning a solo flight?

18. Who is directly responsible and is the final authority as to the operation of your airplane when you are flying solo?

19. You may not fly as a pilot within \_\_\_\_\_ hours after the consumption of an alcoholic beverage or with \_\_\_\_\_% by weight or more alcohol in the blood.

20. Explain the regulatory preflight action requirements.

21 . Explain your use of safety belts and shoulder harnesses while flying solo

22. When aircraft are approaching each other head-on, or nearly so, what action should be taken?

23. Except for takeoff or landing, at what minimum safe altitudes should you operate your airplane?

24. Explain the altimeter setting procedures.

25. When practicing steep turns, slow flight, power-on stalls, and power-off stalls, you should select an altitude that allows the maneuver to be completed no lower than \_\_\_\_\_.

26. Explain the go-around procedures in your airplane. When would you use the go-around procedures?

27. The best glide airspeed for your airplane (at maximum gross weight) is \_\_\_\_\_.

a. What airplane configuration is specified to obtain the maximum glide?

28. Explain the actions you would take if the airplane engine failed in the following situations:

- a. Right after liftoff
- b. During the takeoff climb at an altitude of 100 ft. AGL
- c. En route

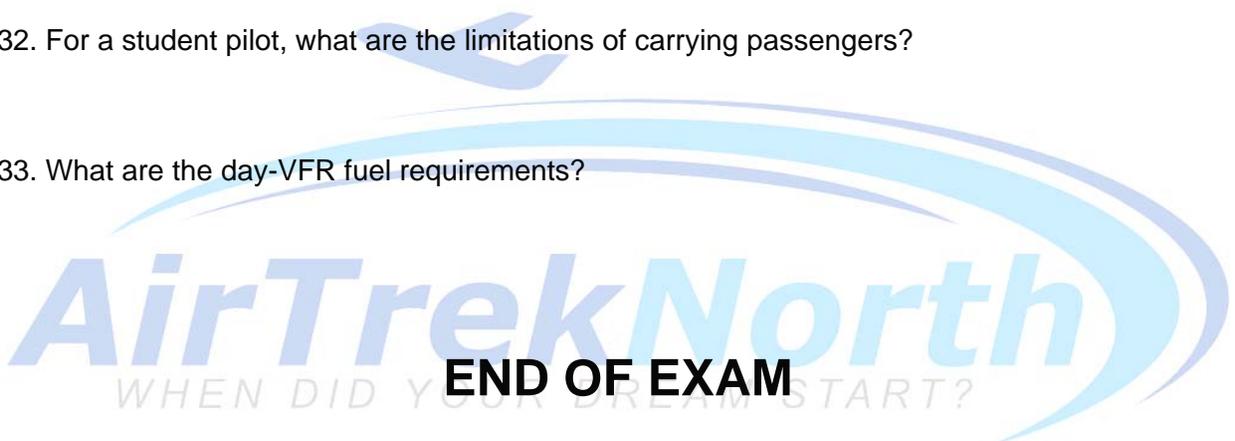
29. Explain the recommended use of flaps for takeoff in your airplane.

30. For a student pilot, what are the minimum visibility requirements?

31. For a student pilot, what are the restrictions to flight above clouds?

32. For a student pilot, what are the limitations of carrying passengers?

33. What are the day-VFR fuel requirements?



**AirTrekNorth**  
WHEN DID YOUR DREAM START?

**END OF EXAM**