

PILOT _____
INSTRUCTOR _____
DATE _____

Piper PA-28-151 6 month quiz Tail: N41896 02/01/2006

1. Date of current aircraft weight and balance computations _____
2. Aircraft licensed empty weight: _____ lbs.
3. Licensed empty weight includes _____ gallons of unusable fuel and _____ lbs. of undrainable engine oil.
4. Maximum normal category gross weight: _____ lbs.
Normal category useful load: _____ lbs.
5. Maximum utility category gross weight: _____ lbs.
Utility category useful load: _____ lbs.
6. Full useable fuel quantity: _____ gals.
7. Maximum passenger and baggage weight with full fuel and oil: _____ lbs.
8. Tire pressures are _____ psi for the nose tire and _____ psi for the main tires.
9. System oil capacity is _____ qts. According to POH, minimum safe quantity is _____ qts. Discuss this with your instructor/check pilot.
10. How many fuel drains should be sampled during preflight? _____.
Where are these fuel system drains located? _____.
11. Primary electrical power is provided by a _____ volt _____ amp alternator.
Secondary electrical power is provided by a _____ volt _____ amp hour battery.
12. If no output is indicated on the ammeter during flight, what steps should be taken?

13. The General Specifications section of the POH predicts a takeoff ground run of 1065 ft. and takeoff distance over a 50 ft. obstacle of 1760 ft. What conditions are assumed for these performance values? Density altitude _____ ft. Flaps _____ degrees. Rotation airspeed _____ mph. Airspeed through 50 ft. _____ mph. What would the predicted ground roll be if density altitude were 3000 ft.? _____.

14. What cruise true airspeed should you expect under the following conditions: Best power. Gross weight 2325 lbs. Density altitude 4000 ft. Throttle 55% power. _____ mph. What airspeed would be expected at 75% power? _____ mph. At 4000 ft., what throttle settings corresponds to 55 and 75% power? _____ and _____ rpm.
15. What cruise range should be expected under the following conditions: Best economy. Gross weight 2325 lbs. Density altitude 4000 ft. Throttle 55% power. 45 minute reserve. _____ statute miles. What range is expected at 75% power? _____ miles.
16. The General Specifications section of the POH predicts a landing roll of 595 ft. What conditions are assumed for this value? Density altitude _____ ft. Flaps _____ degrees. Approach speed _____ mph. The same POH section promises a total landing roll over a 50 ft. barrier of 1115 ft. What does the performance chart at 9-12 show? _____ ft. Discuss with your instructor/check pilot.
17. What are the CAS values for the following airspeeds?
- | | |
|-----------------|----------------------|
| V _{so} | _____ mph. |
| V _s | _____ |
| V _x | _____ |
| V _y | _____ |
| V _a | _____ (at 2325 lbs.) |
| V _{no} | _____ |
| V _{ne} | _____ |
| Takeoff rotate | _____ to _____ |
| Best glide | _____ |
18. What is the maximum airspeed at which flaps may be extended? _____.
19. What is the recommended flap position for a normal takeoff? _____.
What is the recommended flap position for a short field takeoff _____.
20. Which acrobatic maneuvers are permitted in Normal category? _____.
Which in Utility category? _____.
21. What is the maximum entry speed for performance of a steep turn? _____ mph.
22. On takeoff, when exiting the traffic pattern, what altitude should you reach before turning crosswind? _____ ft.
23. When in the traffic pattern, the downwind leg should be flown _____ of I405.
24. At what altitude should you enter the 45° at Renton? _____ ft. Discuss with your instructor/check pilot.
25. On approach for landing, what is the minimum descent altitude over Kennydale and Talbot Hill? _____ ft.