

TRAVIS AERO CLUB OPEN BOOK TEST
PIPER ARCHER II – PA28-181
01 JAN 2000

REFER TO PIPER PA28-181 PILOT OPERATING HANDBOOK P/N: 761-624

1. This airplane has an engine that is rated at ____ horsepower at ____ RPM.
 - a. 180/2700
 - b. 160/2700
 - c. 145/2700
 - d. 210/2800

2. Metering of fuel/air mixture to the engine is accomplished by means of a:
 - a. Carburetor
 - b. Fuel Injection System

3. Engine oil quantity is a maximum/minimum of ____ quarts.
 - a. 5/4
 - b. 8/6
 - c. 10/8
 - d. 6/5

4. The fuel quantity in gallons is: ____ total, ____ useable (all flight conditions), and (PA-28s only) ____ when filled to the tabs.
 - a. 36/34/20
 - b. 52/46
 - c. 50/48/34
 - d. 39/36

5. The **minimum** octane rating for the fuel is aviation grade ____ which is ____ in color.
 - a. 115, purple
 - b. 100, green or 100LL, blue
 - c. 80, red
 - d. JP4, clear

6. Use of carburetor heat on the ground for prolonged periods should be avoided because the air is unfiltered.
 - a. True
 - b. False
 - c. No carburetor heat installed in this aircraft.

7. The electric fuel pump should be “on” or “high” for the following operations:
 - a. Engine priming
 - b. Takeoff
 - c. Both A and B
 - d. Not applicable – fuel pump not installed

8. Maximum gross weight and maximum baggage weights are ____ and ____, respectively.
 - a. 2550/200
 - b. 2500/150
 - c. 2300/150
 - d. 2325/200

TRAVIS AERO CLUB OPEN BOOK TEST
PIPER ARCHER II – PA28-181
01 JAN 2000

9. The flap positions are ____ for operation and ____ to be used as an entrance step.
- 10/20/30 degrees and half down
 - 10/15/30 degrees and full down
 - 10/25/40 degrees and retracted
 - From 0 degrees to 40 degrees and are not
10. The electrical system includes a ____ volt battery and a ____ volt, ____ amperes alternator.
- 14/14/60
 - 12/14/60
 - 12/14/30
 - 12/12/30
11. The ammeter displays:
- Battery voltage
 - Load on the alternator
 - Current flow to/from battery
 - Battery amperage
12. The vacuum-driven flight instruments are as follows:
- Attitude Indicator and Turn Coordinator
 - Altimeter and Directional Gyro
 - Heading Indicator and Turn Coordinator
 - Attitude Indicator and Directional Gyro
13. During preflight inspection the fuel tanks should be *visually* checked to insure the required amount of fuel for the planned flight is aboard.
- True
 - False
14. When starting a flooded engine, the mixture control should be in what position?
- Doesn't matter
 - Full-rich
 - Idle cut-off
 - Half lean
15. Check the magnetos during run-up at ____ RPM. Differential drop should not exceed ____ RPM while max drop on either magneto is ____ RPM.
- 2000/50/50
 - 1700/75/125
 - 1800/50/150
 - 2000/50/175
16. The stall warning horn is typically activated at
- 10-20 knots/mph above stall speed
 - Stall speed
 - 5-10 knots/mph below stall speed
 - 5-10 knots/mph above stall speed

TRAVIS AERO CLUB OPEN BOOK TEST
PIPER ARCHER II – PA28-181
01 JAN 2000

17. With flaps retracted, power at idle and maximum gross weight, the aircraft should stall at ____ kias/mph with 0° bank ____ kias/mph at 30° bank.
- 50/54
 - 64/69
 - 53/57
 - 57/62
18. The mixture should always be leaned during cruise at 75% power or less and climb at altitudes above 5000 ft. MSL.
- True
 - False
19. The procedure for flying in turbulent air is as follows:
- Maintain fastest speed possible
 - Slow to below maneuvering speed and maintain altitude
 - Slow to below maneuvering speed and maintain level pitch attitude
 - Don't fly in turbulent air
20. Initial approach speed is ____ kias/mph (downwind speed for Cessnas) while final approach speed is ____ kias/mph with full flaps.
- 75/66
 - 85/70
 - 85/75
 - 70/63
21. The fuel selector should be on ____ fuel tank(s) prior to landing.
- The left
 - Both
 - The fullest
 - The right
22. For a normal takeoff, allow the aircraft to accelerate to ____ kias/mph, then ease back on the control wheel to establish the approximate pitch attitude for climb.
- 52-65
 - 50-60
 - 60
 - 45-55
23. After completing engine run-up and pre-takeoff check, the checklist should be:
- Placed under the seat
 - Put I the back seat
 - Stowed out of the way
 - Kept on the pilot's lap for quick access
24. At 2300 lbs, pressure altitude of 4000 ft, 60°F, 0° flaps, and 5 knots headwind the takeoff ground run and distance over a 50 ft obstacle should be ____ ft and ____ ft, respectively.
- 1600/2800
 - 1280/2420
 - 1500/2600
 - 1300/2500

TRAVIS AERO CLUB OPEN BOOK TEST
PIPER ARCHER II – PA28-181
01 JAN 2000

25. At maximum gross weight, pressure altitude of 4000 ft, and temperature, the rate of climb should be ____ FPM.
- a. 550
 - b. 450
 - c. 525
 - d. 510
26. At maximum gross weight, pressure altitude of 5000 ft, 70°F, and 75% power (leaned for best power) the airspeed should be ____ ktas and fuel consumption should be ____ gph.
- a. 118/10.0
 - b. 114/8.4
 - c. 123/10.0
 - d. 127/10.5
27. At maximum gross weight, full tanks, pressure altitude of 8000 ft, 30°F, and 65% power (best economy) the range of the aircraft should be ____ (no reserve) and the endurance should be ____ (no reserve).
- a. 710/6.1
 - b. 680/6.8
 - c. 610/6.1
 - d. 683/6.2
28. At gross weight, pressure altitude of 5000 ft, 80°F, 70% power (leaned for best power) will be obtained by setting the throttle to ____ RPM.
- a. 2625
 - b. 2575
 - c. 2700
 - d. 2560