

GROUND REVIEW EXAM

PA28-151 PIPER WARRIOR

References: POH 761 563 Rev14 ~ Lycoming Operator's Manual ~ Pensacola Air Checklists

Name: _____ Date Completed: _____ Hrs: ____ TT / ____ PIC / ____ PA28

Instructor: _____ CFI#: _____ Exp: _____

Aircraft Operating Speeds (MPH)

| | | | |
|--------------------------------|--|---------------------------------------|--|
| Normal Rotation (V_R) | | Stall, Landing Config (V_{SO}) | |
| Best Angle of Climb (V_X) | | Stall, Clean Config (V_S) | |
| Best Rate of Climb (V_Y) | | Design Maneuvering @ Max GW (V_A) | |
| Max Flap Extended (V_{FE}) | | Max Structural Cruising (V_{NO}) | |
| Best Glide (V_G) | | Never Exceed (V_{NE}) | |

General Aircraft Information

Type/Make/Model of Engine: _____ Type of Propeller: Fixed or Variable Pitch

Total fuel capacity ____ gal. Useable fuel ____ gal. Fuel system type is Carburetor or Fuel Injection

Number and location of fuel sumps _____.

Normal fuel pres operating range is _____. Tire pressures are: Main ____ PSI, Nose ____ PSI

Norm oil temp range is _____. Norm oil pres range is _____ Oil system capacity is ____ Qts.

Electrical system: ____ Volts / Alternator Output ____ Amps. Magnetos are checked at ____ RPM.

State the following critical action procedures:

1. ENG FIRE DURING START: _____
2. ENG FAILURE DURING FLIGHT: _____

3. FORCED LANDING: _____

4. LOSS OF FUEL PRESSURE: _____
5. SPIN RECOVERY: _____

Performance Computations

Assumptions: You (200#), one adult (200#), baggage (100#), full tanks

Weather Conditions: KPNS 131553Z 09010G18KT 10SM SKC 30/25 A2992

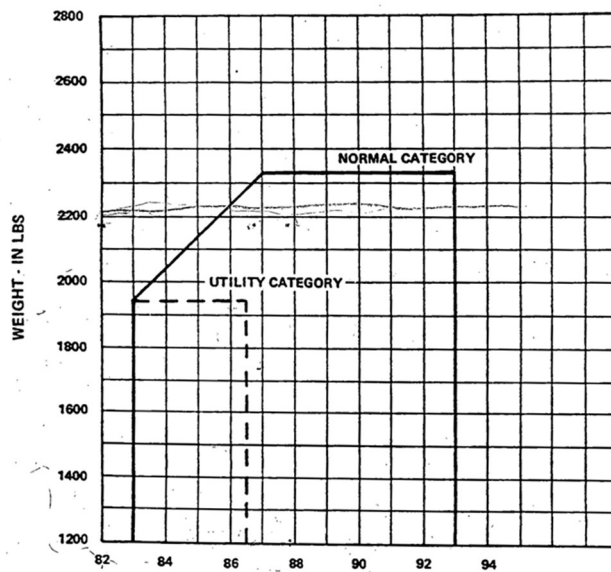
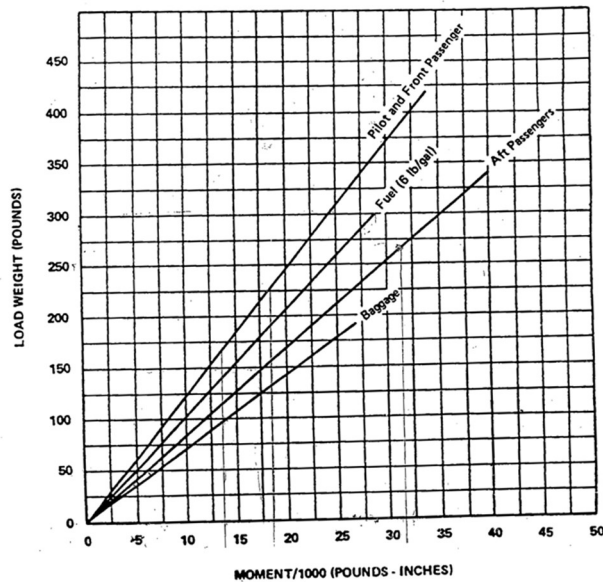
| | | | |
|---------------------|------|-------------------|--|
| Max Gross Weight | | Gross Weight | |
| Max Baggage Allowed | | Field Elevation | |
| Basic Empty Weight | 1434 | Pressure Altitude | |
| Useful Load | | Density Altitude | |

1. What is the takeoff distance to clear a 50' obstacle? _____
2. What is the landing distance to clear a 50' obstacle? _____
3. Expected full throttle climb performance is _____ FT/MIN
4. Best Economy Rng & GPH @ 65% / NO Reserve / 5000' / Std Cond / Max GW is ____ SM ____ GPH
5. Best Power TAS and RPM @ 75% / 4000' / Std Cond / Max GW is ____ MPH ____ RPM

Performance Computations (Cont'd)

| Item | Weight | Arm | Moment |
|------------------------------|--------|-----|--------|
| Basic Empty Weight | 1434 | | 126089 |
| Pilot and Front Passengers | | | |
| Passengers, Aft (Rear Seat) | | | |
| Fuel | | | |
| Baggage | | | |
| Total Loaded Airplane | | | |

The center of gravity (CG) of this flight is _____ inches aft of the datum line and IS / IS NOT within limits.



----- END OF EXAM -----