

GROUND REVIEW EXAM

PA28-161 PIPER WARRIOR II

References: POH VB 880 ~ Lycoming Operator's Manual ~ Pensacola Air Checklists

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

Instructor: _____ CFI#: _____ Exp: _____

Aircraft Operating Speeds (MPH or KIAS?) <-circle one

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 09010KT 10SM SKC 30/25 A2992

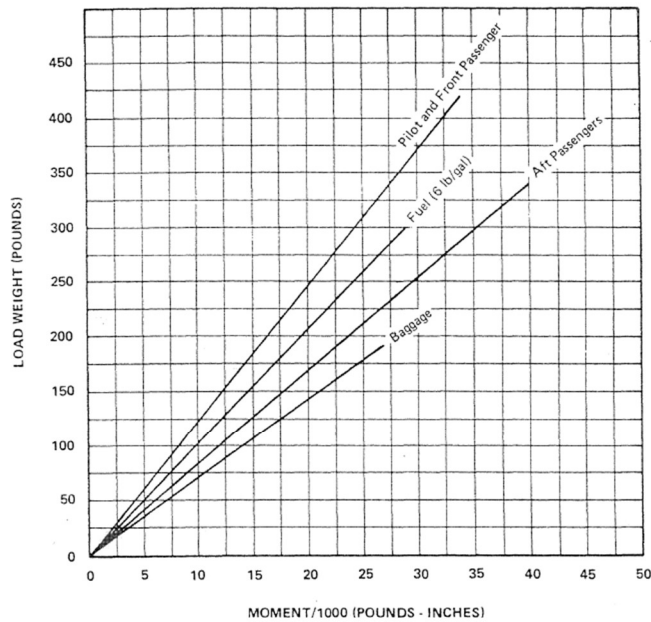
Max Gross Weight		Gross Weight	
Max Baggage Allowed		Field Elevation	
Basic Empty Weight	1536	Pressure Altitude	
Useful Load		Density Altitude	

1. What is the short field 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 ____ NM ____ GPH
5. Best Power TAS and RPM @ 75% / 4000' / Std Cond / Max GW is _____ / _____ RPM

Performance Computations (Cont'd)

Item	Weight	Arm	Moment
Basic Empty Weight	1536		131680
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.



WEIGHT
VS
C.G. ENVELOPE

