

GROUND REVIEW EXAM

PA28-181 PIPER ARCHER

References: POH (VB-760) ~ 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#), two teenagers (125# each), baggage (150#), full tanks

Weather Conditions: KPNS 131553Z 09010KT 10SM SKC 25/20 A2992

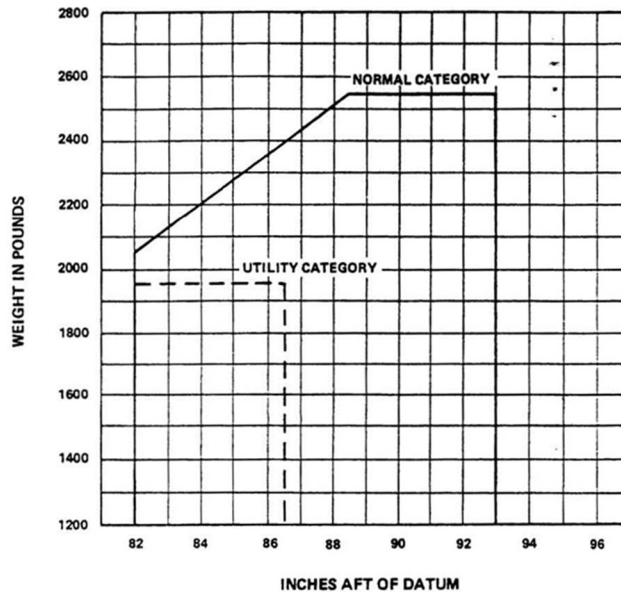
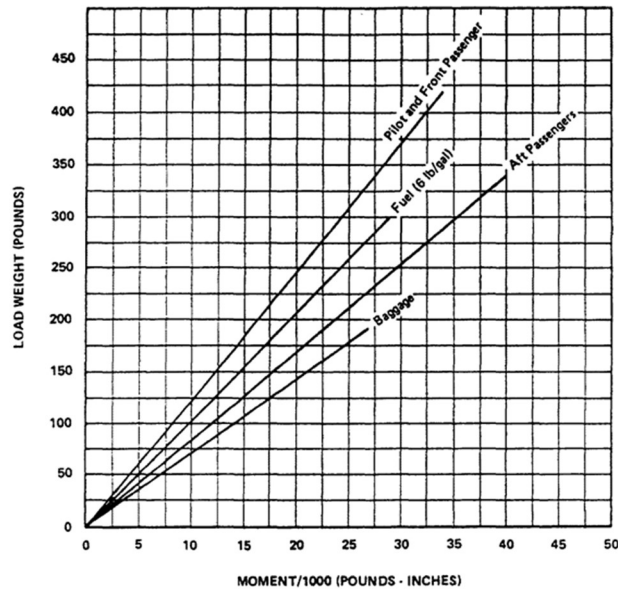
Max Gross Weight		Headwind Component	
Max Baggage Allowed		Field Elevation	
Basic Empty Weight	1416	Pressure Altitude	
Useful Load		Density Altitude	

1. What is the takeoff dist to clear a 50' obstacle @ Max GW / 25 Flaps? _____ft
2. What is the ldg dist to clear a 50' obstacle @ Max GW? _____ft
3. Best Economy Rng & TAS @ 65% / NO Reserve / 5000' / Std Cond / Max GW is ____ NM ____ MPH
4. Best Power Fuel Burn and RPM @ 75% / 4000' / Std Cond / Max GW is _____GPH _____ RPM

Performance Computations (Cont'd)

Item	Weight	Arm	Moment
Basic Empty Weight	1416		128187
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 -----