



1. Describe the following V speeds:

Vy	_____ Kts	Definition	_____
Vx	_____ Kts	Definition	_____
Vs	_____ Kts	Definition	_____
Vso	_____ Kts	Definition	_____
Va	_____ Kts	Definition	_____
Vfe	_____ Kts	Definition	_____
Vno	_____ Kts	Definition	_____
Vne	_____ Kts	Definition	_____
Vr	_____ Kts	Definition	_____
Vg	_____ Kts	Definition	_____
Vfinal	_____ Kts	Definition	_____

What happens to Va as weight decreases? _____

What denotes flap operating range on the AS indicator? _____

What denotes Vno on the AS indicator? _____

What denotes Vne on the AS indicator? _____

Determine the cross-wind component with runway 26, wind 350@22kts: _____

2. What are the following weights?

Max ramp weight _____

Max takeoff weight _____

Max landing weight _____

Max allowable baggage weight _____

3. What is the total oil capacity? _____

What is the minimum oil capacity? _____

What type and grade of oil is used? _____ Winter? _____ Summer? _____

4. What is the total: Usable fuel? _____ Unusable fuel? _____

What is the fuel: Grade? _____ Color? _____

5. Where is the battery located? _____ Volts? _____

Where are the circuit breakers located _____

What information does the Ammeter show? _____

6. What is the procedure for an External power Start? _____

Describe engine cold star procedure: _____

Describe engine hot star procedure: _____

7. What instrument indications could indicate an imminent engine failure? _____

8. Describe the procedure for an engine failure: _____

During ground roll: _____

Immediately after takeoff: _____

^In flight: _____

^Describe forced landing procedure: _____

9. What instruments could indicate an alternator failure: _____

10. Describe the procedure for an alternator failure: _____

11. Describe the procedure for an engine fire on startup: _____

12. Describe the procedure for an engine fire in flight: _____

13. What instruments and how would they be affected with the use of alternate static air: _____

14. Using the W&B sheet for the specific aircraft, calculate W&B for full fuel, two passengers, one at 145 lbs and the other at 170 lbs and 50 lbs of baggage.

What flight characteristics would you expect with a:

Forward CG? _____

Aft CG? _____

15. Determine the following performance:

Takeoff - 0 flaps, 2000ft PA, 20c, 10 kt headwind, 2550 lbs takeoff weight

Takeoff distance: _____ Over 50 ft obstacle: _____

Landing - 1000ft PA, 15c, 0 kts headwind, 2400 lbs landing weight

Landing distance over 50 ft obstacle: _____ Ground roll: _____

Cruise - 5500 ft PA, 0c, 65% power

RPM: _____ TAS: _____ Fuel burn: _____

NOTES:

