PERFORMANCE AND LIMITATIONS WORKSHEET

This worksheet should be prepared for the make/model airplane you fly most frequently. Please attach this completed worksheet to your graduation certificate to give to your CFI at your next flight review or WINGS lesson(s).

Pilot name _____

Date _____

Make/Model Airplane _____

1. List the airspeeds and their definitions for your airplane. If the airspeed is not applicable to your airplane, put "NA" in the airspeed column.

	Airspeed	Definition
V_{S0}	_____	_____
V_{S1}	_____	_____
V_R	_____	_____
V_X	_____	_____
V_Y	_____	_____
V_{FE}	_____	_____
V_A	_____	_____
V_{LE}	_____	_____
V_{LO}	_____	_____
V_{NO}	_____	_____
V_{NE}	_____	_____
Best glide	_____	_____

2. The maximum ramp (gross) weight for your airplane is _____ lb.
3. The maximum takeoff weight for your airplane is _____ lb.
4. The maximum landing weight for your airplane is _____ lb.
5. Fuel: Maximum capacity _____ gal. of which _____ gal. is usable

Sample Problem

1. Airplane loading:

   Takeoff weight: maximum takeoff weight
   Fuel load: Full

2. Departure airport conditions:

   Pressure altitude: 1,000 ft.
   Temperature: 35°C
   Wind: 8 kt. headwind
   Runway length: 4,000 ft.

3. Cruise conditions:

   Total distance: 200 NM
   Power: 70%
   Pressure altitude: 5,500 ft.
   Temperature: 20°C
   Wind en route: 10 kt. headwind

4. Destination airport conditions:

   Pressure altitude: 2,500 ft.
   Temperature: 35°C
   Wind: 5 kt. headwind
   Runway length: 4,000 ft.
   Landing weight: maximum takeoff weight less fuel used during climb and cruise

Your Answers to "Sample Problem"

a. Takeoff
   1) Ground roll distance: _____
   2) Distance to clear 50-ft. obstacle: _____
   3) Takeoff speed: _____
   4) Speed at 50 ft.: _____

b. Time, Fuel, and Distance to Climb
   1) Time: _____
   2) Fuel: _____
   3) Distance: _____

c. Cruise
   1) TAS: _____
   2) Fuel flow: _____

d. Landing
   1) Landing weight: _____
   2) Ground roll distance: _____
   3) Total distance to clear a 50-ft. obstacle: _____
   4) Speed at 50 ft.: _____

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