## Ace Pilot Training Weight and Balance Computation N8543E PA28-140

ltem	Weight (Ibs)	Arm (in.)	Moment (in-Ibs)
Licensed Empty Weight	1395.8	87.77	122512.54
Oil (8 quarts)	15.00	32.50	488.00
Pilot and Front Passenger		85.50	
Passengers (Rear Seats)		117.00	
Fuel (50 Gal. Max at 6 lbs per gallon)		95.00	
Baggage Area 1	N/A	117.00	0.00
Baggage Area 2 (100 lbs. Max)		133.30	
Total Loaded Airplane (2150 lbs. Max)		*****	

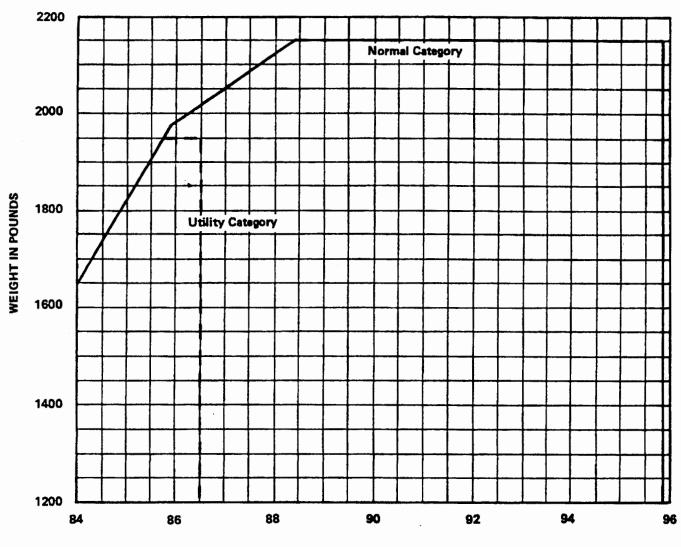
Instructions For Computing Total Weight and Center of Gravity

- 1. Enter all weights as applicable in the "Weight" column
- 2. Multiply each weight that was entered by its corresponding arm from the "Arm" column and put the result in the "Moment" column.
- 3. Add all weights to find total weight and fill in below.
- 4. Add all moments to find total moment.
- 5. Divide total moments by total weight to find center of gravity (CG) and fill in below.
- 6. Verify that the total weight and CG fall within the "Weight vs. CG envelope" prior to conducting any flight.

Total Weight (lbs)

Center of Gravity (CG) (in.)





## C. G. RANGE AND WEIGHTS

INCHES AFT DATUM