

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

Item	Weight (lbs)	Arm (in.)	Moment (in-lbs)
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

