

WEIGHT & BALANCE EXERCICE - 1

Con i Seguenti dati calcolare il "Weight and Balance" per l'elicottero
Huges H-269 (S/N 1742).
Per semplicità si prenda 1 [USGal] = 6 [ibs].
Fare riferimento all '**Annex-1**.

Pilot : 103 [kg]
Co-Pilot : 83 [kg]
Pass. center : 47 [kg]
Glow Box : 6 [kg]
Main tank : 20 [USGal]
Aux tank : 21 [USGal]
Helicopter : 928 [lbs]

Scegliere il risultato più vicino

- A) Mass: 1782.9 [ibs] Arm long: 94.66 [inch] Arm lat: -0.28 [inch]
- B) Mass: 1704.9 [ibs] Arm long: 95.86 [inch] Arm lat: -0.48 [inch]
- C) Mass: 1725.9 [ibs] Arm long: 96.26 [inch] Arm lat: -0.44 [inch]
- D) Mass: 1700.9 [ibs] Arm long: 95.36 [inch] Arm lat: -0.32 [inch]

	Weight (lbs)	Long. Arm (inch)	Moment	Lat. Arm (inch)	Moment
Empty weight					
Pilot					
Co-Pilot					
Pass. center					
Glow Box					
Main tank					
Aux tank					
Take-off weight					
		C.G. Long.		C.G. Long.	

WEIGHT & BALANCE EXERCICE - 1 SOLUTION

	Weight (lbs)	Long. Arm (inch)	Moment	Lat. Arm (inch)	Moment
Empty weight	928.00	100.00	92800.00	0.00	0.00
Pilot	227.08	83.20	18892.73	-13.80	-3133.65
Co-Pilot	182.98	83.20	15224.24	13.80	2525.17
Pass. center	103.62	80.00	8289.38	0.75	77.71
Glow Box	13.23	50.30	665.35	0.00	0.00
Main tank	120.00	107.00	12840.00	18.00	2160.00
Aux tank	126.00	107.00	13482.00	-17.20	-2167.20
Take-off weight	1700.90	95.36	162193.70	-0.32	-537.96
		C.G. Long.		C.G. Lat.	