

**Soaring Conversions**  
 by Paul Remde  
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Distance Conversions		
Enter	1 meter	1 foot
Results	3.281 feet	0.304785126 meter
Enter	1 statute miles	1 foot
Results	5280 feet	0.000189394 statute miles
Enter	1 nautical miles	1 foot
Results	6080 feet	0.000164474 nautical miles
Enter	1 km	1 statute mile
Results	0.6214 statute mile	1.609269392 km
Enter	1 nautical mile	1 statute mile
Results	1.151 statute mile	0.868809731 nautical mile
Enter	1 nautical mile	1 km
Results	1.8532 km	0.539607166 nautical mile

Polar Calculations	
Compensation for different weights or wing loadings	
Weight or Wing Loading when polar created	550 units a
Weight or Wing Loading for new point	700 units a
Speed on Polar	100 units b
Sink Rate on Polar	1 units c
Speed at new weight or wing loading	113 units b
Sink Rate at new weight or wing loading	1.13 units c

Speed Conversions		
Enter	1 knots	1 km/h
Results	1.8532 km/h	0.539607166 knots
Enter	1 knots	1 mph
Results	1.151 mph	0.868809731 knots
Enter	1 km/h	1 mph
Results	0.6214 mph	1.609269392 km/h

Sink Rate Conversions		
Enter	1 m/s	1 knots
Results	1.942585798 knots	0.514777778 m/s
Enter	1 knots	1 ft/min
Results	101.3333333 ft/min	0.009868421 knots
Enter	1 m/s	1 ft/min
Results	196.86 ft/min	0.005079752 m/s

Area Conversions		
Enter	9.51 m <sup>2</sup>	1 ft <sup>2</sup>
Results	102.3747791 ft <sup>2</sup>	0.092893973 m <sup>2</sup>

Wing Loading Conversions		
Enter	45 kg/m <sup>2</sup>	10.77 lb/ft <sup>2</sup>
Results	9.217404503 lb/ft <sup>2</sup>	52.57987754 kg/m <sup>2</sup>

Weight Conversions		
Enter	1 pounds	1 kg
Results	0.453514739 kg	2.205 pounds
Enter	1 gallons of water	184 pounds
Results	8.3453 pounds	22.04833859 gallons of water
Enter	1 gallons of water	1 kg
Results	3.784716553 kg	0.264220579 gallons of water

Volume Conversions		
Enter	1 gallons	1 liters
Results	3.785 liters	0.264200793 gallons