**The unfortunate world of different measures…**

**Length conversions**

|  |  |  |
| --- | --- | --- |
| **American** | **Metric** | **Inverse** |
| 1 inch | 25.4 mm = 2.54 cm |  |
| 1 foot | 304.8 mm = 30.48 cm = 0.305 m | 3.28 feet to a meter |
| 1 yard | 914.4 mm = 91.44 cm = 0.914 m | 1.094 yards to a meter |
| 1 mile | 1,609 m = 1.609 km | 0.62 miles to a km |

**Area conversions**

|  |  |  |
| --- | --- | --- |
| **American** | **Metric** | **Inverse** |
| 1 square inch | 6.45 square cm |  |
| 1 square foot | 0.0929 square meters | 10.76 sq. feet to a sq. meter |
| 1 square yard | 0.8361 square meters | 1.196 sq. yards to a sq. meter |
| 1 acre | 4,047 sq meters = 0.4047 hectars | 2.47 hectars to an acre |
| 1 square mile | 2.59 square km | 0.386 sq. km to a sq. mile |

**Volume conversions**

|  |  |  |
| --- | --- | --- |
| **American** | **Metric** | **Inverse** |
| 1 cubic inch | 16.387 cubic cm |  |
| 1 cubic foot = 1,728 cubic inches | 0.0283 cubic meters |  |
| 1 cubic yard = 27 cubic feet | 0.764 cubic meters | 1.31 cubic yards to a cubic meter |
| 1 fluid ounce | 29.574 ml |  |
| 1 pint = 16 ounces | 0.47311 liters | 2.11 pints to a liter |
| 1 fifth = 25.6 ounces | 0.757 liters |  |
| 1 quart = 32 ounces | 0.94622 liters |  |
| 1 gallon = 128 ounces | 3.78541 liters |  |

**Weight (mass) conversions**

|  |  |  |
| --- | --- | --- |
| **American** | **Metric** | **Inverse** |
| 1 dry ounce | 28.35 grams |  |
| 1 pound = 16 ounces | 0.4536 kilograms | 1 kg is 2.2046 pounds |
| 1 cwt (hundredweight)= 100 lbs | 45.36 kg |  |
| 1 short ton = 2,000 lbs | 907.2 kg = 0.9072 metric tons | 1 metric ton = 1.1023 short tons |
| 1 long ton = 2,240 lbs | 1,016 kg = 1.016 metric tons |  |

*Andreas Udbye, Sept. 24, 2012*