**METRIC/IMPERIAL UNIT CONVERSION TABLE**

Imperial Metric Metric Imperial

**Linear Measure (Length/Distance)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Imperial | |  |  |  | Metric |  |
|  | 1 inch | |  |  |  | 25.4 millimetres |  |
|  | 1 foot (=12 inches) | |  |  | 0.3048 metre | |  |
|  | 1 yard (=3 feet) | |  |  |  | 0.9144 metre |  |
|  | 1 | (statute) mile (=1760 yards) |  |  |  | 1.6093 kilometres |  |
|  | 1 | (nautical) mile (=1.150779 miles) |  |  | 1.852 kilometres | |  |

**Linear Measure (Length/Distance)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Metric |  |  |  | Imperial |  |
|  | 1 millimetre |  |  |  | 0.0394 inch |  |
|  | 1 centimetre (=10 mm) |  |  |  | 0.3937 inch |  |
|  | 1 decimetre (=10 cm) |  |  | 3.937 inches | |  |
|  | 1 metre (=100 cm) |  |  | 1.0936 yards | |  |
|  | 1 decametre (=10 m) |  |  |  | 10.936 yards |  |
|  | 1 hectometre (=100 m) |  |  |  | 109.36 yards |  |
|  | 1 kilometre (=1000 m) |  |  |  | 0.6214 miles |  |

**Square Measure (Area)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Imperial |  |  |  | Metric |  |
|  | 1 square inch |  |  |  | 6.4516 sq. centimeters |  |
|  | 1 square foot (=144 square inches) |  |  | 9.29 square decimeters | |  |
|  | 1 square yard (=9 square feet) |  |  |  | 0.8361 square metres |  |
|  | 1 acre (=4840 square yards) |  |  |  | 0.40469 hectare |  |
|  | 1 square mile (=640 acres) |  |  | 259 hectares | |  |

**Square Measure (Area)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Metric |  |  |  | Imperial |  |
|  | 1 square centiremetre |  |  |  | 0.1550 sq. inch |  |
|  | 1 square metre (=10 000 sq. cm) |  |  | 1.1960 sq. yards | |  |
|  | 1 are (=100 sq. metres) |  |  | 119.60 sq. yards | |  |
|  | 1 hectare (=100 ares) |  |  |  | 2.4711 acres |  |
|  | 1 square kilometer (=100 hectares) |  |  |  | 0.3861 sq. mile |  |

**Cubic Measure (Volume)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Imperial |  |  |  | Metric |  |
|  | 1 cubic inch |  |  |  | 16.4 cubic centimeters |  |
|  | 1 cubic foot (=1728 cubic inches) |  |  | 0.0283 cubic metres | |  |
|  | 1 cubic yard (=27 cubic feet) |  |  |  | 0.765 cubic metres |  |

**Capacity Measure (Volume)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Imperial | |  |  |  | Metric |  |
|  | 1 | (imperial) fl. oz. (=1/20 imperial pint) |  |  |  | 28.41 ml |  |
|  | 1 | (US liquid) fl. oz. (=1/16 US pint) |  |  |  | 29.57 ml |  |
|  | 1 | (imperial) gill (=1/4 imperial pint) |  |  | 142.07 ml | |  |
|  | 1 | (US liquid) gill (=1/4 US pint) |  |  | 118.29 ml | |  |
|  | 1 | (imperial) pint (=20 fl. imperial oz.) |  |  | 568.26 ml | |  |
|  | 1 | (US liquid) pint (=16 fl. US oz.) |  |  | 473.18 ml | |  |
|  | 1 | (US dry) pint (=1/2 quart) |  |  |  | 550.61 ml |  |
|  | 1 | (imperial) gallon (=4 quarts) |  |  | 4.546 litres | |  |
|  | 1 | (US liquid) gallon (=4 quarts) |  |  |  | 3.785 litres |  |
|  | 1 | (imperial) peck (=2 gallons) |  |  | 9.092 litres | |  |
|  | 1 | (US dry) peck (=8 quarts) |  |  |  | 8.810 litres |  |
|  | 1 | (imperial) bushel (=4 pecks) |  |  | 36.369 litres | |  |
|  | 1 | (US dry) bushel (=4 pecks) |  |  | 35.239 litres | |  |

**Cubic Measure (Volume)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Metric |  |  |  | Imperial |  |
|  | 1 cubic centimeter |  |  |  | 0.0610 cubic inch |  |
|  | 1 cubic metre (one million cu. cm) |  |  | 1.308 cubic yards | |  |

**Capacity Measure (Volume)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Metric |  |  |  | Imperial | |  |
|  | 1 millilitre |  |  |  | 0.002 (imperial) pint | |  |
|  | 1 centilitre (=10 ml) |  |  | 0.018 pint | | |  |
|  | 1 decilitre (=100 ml) |  |  | 0.176 pint | | |  |
|  | 1 litre (=1000 ml) |  |  |  | 1.76 pints | |  |
|  | 1 decalitre (=10 l) |  |  | 2.20 | | (imperial) gallons |  |
|  | 1 hectolitre (=100 l) |  |  | 2.75 | | (imperial) bushels |  |

**Mass (Weight)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Imperial** |  |  |  | **Metric** |  |
|  | 1 grain |  |  |  | 0.065 gram |  |
|  | 1 dram |  |  |  | 1.772 grams |  |
|  | 1 ounce (=16 drams) |  |  | 28.35 grams | |  |
|  | 1 pound (=16 ounces =7000 grains) |  |  | 0.45359237 kilogram | |  |
|  | 1 stone (=14 pounds) |  |  |  | 6.35 kilograms |  |
|  | 1 quarter (=2 stones) |  |  |  | 12.70 kilograms |  |
|  | 1 hundredweight (=4 quarters =112 lb.) |  |  |  | 50.80 kilograms |  |
|  | 1 (long) ton (=2240 lbs) |  |  |  | 1.016 tonnes |  |
|  | 1 (short) ton (=2,000 lbs) |  |  | 0.907 tonne | |  |

**Mass (Weight)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Metric** |  |  |  | **Imperial** |  |
|  | 1 milligram |  |  |  | 0.015 grain |  |
|  | 1 centigram (=10 mg) |  |  | 0.154 grain | |  |
|  | 1 decigram (=100 mg) |  |  | 1.543 grain | |  |
|  | 1 gram (=1000 mg) |  |  |  | 15.43 grain |  |
|  | 1 decagram (=10 g) |  |  |  | 5.64 drams |  |
|  | 1 hectogram (=100 g) |  |  |  | 3.527 ounces |  |
|  | 1 kilogram (=1000 g) |  |  | 2.205 pounds | |  |
|  | 1 tonne (=1000 kg) |  |  | 0.984 (long) ton | |  |