

GEOMETRIC LENGTH

| Unit | M | km | mile | yd | feet | inches | nautical mile |
|---------------|----------|-------------------------|----------------------------|-----------|----------|-----------|---------------------------|
| m | 1 | 0.001 | 0.6213712×10^{-3} | 1.093613 | 3.280839 | 39.370079 | 0.539957×10^{-3} |
| km | 1000 | 1 | 0.6213712 | 1093.613 | 3280.839 | 39370.079 | 0.539957 |
| mile | 1609.344 | 1.609344 | 1 | 1760 | 5280 | 63360 | 0.868976 |
| yd | 0.9144 | 0.9144×10^{-3} | 0.568182×10^{-3} | 1 | 3 | 36 | 0.493736×10^{-3} |
| ft | 0.3048 | 0.3046×10^{-3} | 0.189394×10^{-3} | 0.333333 | 1 | 12 | 0.164579×10^{-3} |
| in | 0.0254 | 0.0254×10^{-3} | 15.7828×10^{-4} | 0.0277778 | 0.083333 | 1 | - |
| nautical mile | 1852 | 1.852 | 1.15078 | 2025.373 | 6076.12 | - | 1 |

- This is the international unit: 1 (int) n. mile = 0.999362 UK n. mile
- Note. The micron is now called the micrometre (μm) and = 39.3701 μ inch
- 10 Angstrom units (A) = 1 millimicron - 1×10^{-9} mm

AREA

- Square the conversion factors given in Table to obtain the desired factor

VOLUME

| Unit | m ³ | litre | ft ³ | in ³ | UK gal |
|-----------------|---------------------------|---------------------------|-------------------------|-----------------|-----------|
| m ³ | 1 | 10 ³ | 35.31467 | 61023.74 | 219.9688 |
| litre | 10 ⁻³ | 1 | 0.0353147 | 61.02374 | 0.2199688 |
| ft ³ | 0.0283168 | 20.31685 | 1 | 1728 | 6.22837 |
| in ³ | 16.38706×10^{-6} | 16.38706×10^{-3} | 0.5787×10^{-3} | 1 | - |
| UK gal | 0.0045461 | 4.546091 | 0.160544 | 277.419 | 1 |

- 1 UK gal = 0.0045461 USA gal
- 1 US gal = 0.832957 UK gal

MASS

| Uni | kg | lb | t | UK ton | slug |
|--------|-------------|----------|------------------|---------------------------|------------|
| kg | 1 | 2.204623 | 10 ⁻³ | 0.984207×10^{-3} | 0.06852177 |
| lb | 0.453550237 | 1 | 0.0004536 | 0.00044643 | 0.03108095 |
| t | 1000 | 2264.623 | 1 | 0.96421 | - |
| UK ton | 1016.0467 | 2240 | 1.0160467 | 1 | - |
| slug | 14.5635 | 32.17406 | - | - | 1 |

- UK ton = 2000 lb = 0.892857 UK tons = 1.12 US ton