

CONVERSION OF UNITS

Relationship of Metric to Imperial Measures

	Conversion to:	Multiply by:		Conversion to:	Multiply by:
Measures of length	1 mm	= 0.0394 inch	Volumes of dry substances	litre	peck 0.1100
	1 cm = 10 mm	= 0.3937 inch		litre	bushel 0.0275
	1 dm = 10 cm	= 3.9370 inches		litre	kilderkin 0.0122
	1 m = 10 dm	= 1.0936 yards		m ³	barrel 6.1103
	1 dam = 10 m	= 10.9361 yards		m ³	quarter 3.4370
	1 hm = 10 dam	= 109.3614 yards		peck	litre 9.0922
	1 km = 10 hm	= 0.6214 mile		bushel	litre 36.3687
				kilderkin	litre 81.829
				barrel	m ³ 0.1637
				quarter	m ³ 0.2909
	cm	inch (") 0.3937	Volumes of liquids	litre	gill (liq) 7.0390
	m	foot (') 3.2808		litre	pint (liq) 1.7598
	m	yard (yd) 1.0936		litre	quart (liq) 0.8799
	km	statute mile (st.mi) 0.6214		litre	pottle 0.4399
	inch	cm 2.5400		litre	gallon 0.2200
	foot	m 0.3048		gill (liq)	litre 0.1421
	yard	m 0.9144		pint (liq)	litre 0.5683
	statute mile	km 1.6093		quart (liq)	litre 1.1365
				pottle	litre 2.2730
				gallon	litre 4.5461
Measures of area	1 mm ²	= 0.00155 square inch	Measures of volume	cm ³	cubic inch (cu.in) 0.06102
	1 cm ² = 100 mm ²	= 0.15499 square inch		litre	cubic foot (cu. ft) 0.03531
	1 dm ² = 100 cm ²	= 15.499 square inches		m ³	cubic yard (cu. yd) 1.308
	1 m ² = 100 dm ²	= 1.19599 square yards		m ³	register ton (reg. tn) 0.3531
	1 dam ² = 100 m ²	= 119.5993 square yards		cubic inch	cm ³ 16.387
	1 hm ² = 100 dam ²	= 2.4711 acres		cubic foot	litre 28.317
	1 km ² = 100 hm ²	= 247.11 acres = 0.3861 square mile		cubic yard	m ³ 0.7646
	1 m ²	= 1549.9 square inches		register ton	m ³ 2.8317
	1 a = 100 m ²	= 119.5993 square yards	Measures of weight	1 mg	= 0.0154 grain
	1 ha = 100 a	= 2.4711 acres		1 cg = 10 mg	= 0.1543 grain
	1 km ² = 100 ha	= 247.11 acres = 0.3861 square mile		1 dg = 10 cg	= 1.543 grains
				1 g = 10 dg	= 15.432 grains
				1 dag = 10 g	= 0.353 ounce = 0.321 ounce
				1 hg = 10 dag	= 3.527 ounces = 3.215 ounces
				1 kg = 10 hg	= 2.205 pounds = 2.679 pounds
				1 t = 1000 kg	= 1.102 short tons
Measures of volume	cm ²	square inch (sq. in) 0.1550	Measures of weight	g	grain 15.4323
	m ²	square foot (sq. ft) 10.7639		g	dram (av.) 0.5644
	m ²	square yard (sq. yd) 1.1960		g	ounce (av.) 0.0353
	1000 m ²	acre 0.2471		kg	pound (av.) 2.2046
	km ²	square mile (sq. mi) 0.3861		t	long ton (Brit.) 0.9842
	square inch	cm ² 6.4516		grain	g 0.0648
	square foot	m ² 0.0929		dram	g 1.7718
	square yard	m ² 0.8361		ounce	g 28.3495
	acre	m ² 4046.8		pound	kg 0.4536
	square mile	km ² 2.5900			
Measures of timber	1 mm ²	= 0.000061 cubic inch	Metric carat weights	200 mg	= 1 carat
	1 cm ² = 1000 mm ³	= 0.061023 cubic inch		100 mg	= ½ carat = 0.5 carat
	1 dm ² = 1000 cm ³	= 61.024 cubic inches		50 mg	= ¼ carat = 0.25 carat
	1 m ² = 1000 dm ³	= 35.315 cubic feet		20 mg	= ⅒ carat = 0.10 carat
		= 1.3079 cubic yards		10 mg	= ⅒ carat = 0.05 carat
				2 mg	= ⅒ carat = 0.01 carat
Volumes of liquids	1 ml = 1 cm ³	= 16.89 minims			
	1 cl = 10 ml	= 0.352 fluid ounce			
	1 dl = 10 cl	= 3.52 fluid ounces			
	1 l = 10 dl	= 1.76 pints			
	1 dal = 10 l	= 2.1998 gallons			
	1 hl = 10 dal	= 2.75 bushels			
	1 kl = 10 hl	= 3.437 quarters			

CONVERSION OF UNITS

Measures, Weights, Temperature

Metric weights and measures		Non-metric weights and measures	
	Instead of the abbreviations sq. m, sq. dm, sq. cm, sq. mm, it is now more usual to use m ² , dm ² , cm ² , mm ² and, instead of cu. m, cu. dm, cu. cm, cu. mm, now m ³ , dm ³ , cm ³ , mm ³	1 equatorial degree 111.3 km 1 meridian degree 111.12 km 1 new geographical mile (15 = 1 equatorial degree) 7.42 km 1 cable (120 fathoms) 0.22 km 1 fathom 1.829 m 1 geographical square mile 55.0629 km ²	
Measures of length	The unit is the metre (m) = one ten-millionth of the Earth's meridian quadrants (i.e. the direct route from pole to equator) 1 km (kilometre) 1000 m 1 m (metre) 10 dm 1 dm (decimetre) 10 cm 1 cm (centimetre) 10 mm (millimetre)		
Measures of area	1 km ² (square kilometre) 100 ha 1 ha (hectare) 100 a 1 a (are) 100 m ² 1 m ² (square metre) 100 dm ² 1 dm ² (square decimetre) 100 cm ² 1 cm ² (square centimetre) 100 mm ²		
Measures of volume	1 m ³ (cubic metre) 1000 dm ³ 1 dm ³ (cubic decimetre or litre) 1000 cm ³ 1 cm ³ (cubic centimetre) 1000 mm ³		
Volumes of liquid	1 m ³ (cubic metre) 10 hl 1 hl (hectolitre) 100 l 1 l (litre) 0.001 m ³		
Measures of weight	1 t (tonne) 10 dz (1000 kg) 1 dz (Doppelzentner) 100 kg 1 kg (kilogram) 1000 g 1 g (gram) 1000 mg (milligram)		
Measures of length	Imperial weights and measures 1 nautical mile (knot) = 6080 feet = 1.8532 km 1 statute mile = 8 furlongs = 8 × 220 yards = 1760 × 3 feet = 5280 feet = 1.6093 km 1 London mile = 5000 feet = 1.5239 km 1 fathom = 2 yards = 6 feet = 72 inches = 1.8287 m 1 yard = 3 feet = 36 inches = 0.9144 m 1 foot (ft) = 12 inches = 0.3048 m 1 inch = 25.399 mm	Temperatures: degree Celsius (°C) = $\frac{5}{9}(°F - 32) = \frac{5}{9}°R$ degree Réaumur (°R) = $\frac{4}{5}°C = \frac{4}{5}(°F - 32)$ degree Fahrenheit (°F) = $\frac{9}{5}°C + 32 = \frac{9}{5}°R + 32$ + 320°C = 273.15 Kelvin comparison table: °C = °R = °F - 40 - 32 - 40 - 35 - 28 - 31 - 30 - 24 - 22 - 25 - 20 - 13 - 20 - 16 - 4 - 17.8 -14.2 0 - 15 -12 + 5 - 10 - 8 + 14 - 5 - 4 + 23 0 0 + 32 + 5 +4 + 41 + 10 + 8 + 50 + 15 +12 + 59 + 20 +16 + 68 + 25 +20 + 77 + 30 +24 + 86 + 35 +28 + 95 + 40 +32 +104 + 45 +36 +113 + 50 +40 +122 + 55 +44 +131 + 60 +48 +140 + 65 +52 +149 + 70 +56 +158 + 75 +60 +167 + 80 +64 +176 + 85 +68 +185 + 90 +72 +194 + 95 +76 +203 +100 +80 +212	
Measures of area	1 square mile (sq. mile) = 640 acres = 2.59 km ² 1 acre = 160 square poles = 4840 square yards = 40.4685 m ² 1 square pole = 25.293 m ² 1 square yard = 9 square feet = 0.8361 m ² 1 square foot = 144 square inches = 0.0929 m ² 1 square inch = 6.4516 cm ²		
Measures of volume	1 register ton = 100 cubic feet = 2.832 m ³ 1 ocean ton = 40 cubic feet = 1.1327 m ³ 1 cubic yard (cu. yd.) = 27 cubic feet = 0.7646 m ³ 1 cubic foot (cu. ft.) = 1728 cubic inches = 0.0283 m ³ 1 cubic inch (cu. in.) = 16.387 cm ³		
Measures of liquid	1 Imperial quarter = 8 bushels = 2.90789 hl 1 bushel = 8 gallons = 0.3635 hl 1 Imperial gallon = 4 quarts = 4.5435 l 1 quart = 2 pints = 1.14 l 1 pint = 0.56 litre 1 American gallon = 231 cubic inches = 3.7852 l		
Measures of weight	1 ton (long ton) = 20 hundredweight = 20 × 4 quarters = 80 × 28 stone 1 ship's ton (short ton) = 2000 pounds = 907.1853 kg [= 1016.0471 kg] 1 hundredweight (cwt) = 4 quarters = 50.8 kg 1 quarter = 2 stones = 12.701 kg 1 stone = 14 pounds = 6.35 kg 1 pound = 16 ounces = 0.4536 kg 1 ounce = 0.0284 kg		

CONVERSION OF UNITS

Conversion of Imperial Measures to Millimetres

inch(")	1/16	1/12	1/8	1/6	3/16	1/4	5/16	1/3	3/8	5/12	7/16	1/2
mm.....	1.59	2.12	3.18	4.23	4.76	6.35	7.94	8.47	9.52	10.58	11.11	12.70
inch(")	9/16	7/12	5/8	2/3	11/16	3/4	13/16	5/6	7/8	11/12	15/16	1
mm.....	14.29	14.82	15.87	16.93	17.46	19.05	20.64	21.17	22.22	23.28	23.81	25.40

English foot and inch to millimetres

1 ft = 304.79973 mm

ft	in	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
0	0	0	25.4	51	76	102	127	152	178	203	229	254	279	305
1	12	305	330	356	381	406	432	457	483	508	533	559	584	610
2	24	610	635	660	686	711	737	762	787	813	838	864	889	914
3	36	914	940	965	991	1016	1041	1067	1092	1118	1143	1168	1194	1219
4	48	1219	1245	1270	1295	1321	1346	1372	1397	1422	1448	1473	1499	1524
5	60	1524	1549	1575	1600	1626	1651	1676	1702	1727	1753	1778	1803	1829
6	72	1829	1854	1880	1905	1930	1956	1981	2007	2032	2057	2083	2108	2134
7	84	2134	2159	2184	2210	2235	2261	2286	2311	2337	2362	2388	2413	2438
8	96	2438	2464	2489	2515	2540	2565	2591	2616	2642	2667	2692	2718	2743
9	108	2743	2769	2794	2819	2845	2870	2896	2921	2946	2972	2997	3023	3048
10	120	3048	3073	3099	3124	3150	3175	3200	3226	3251	3277	3302	3327	3353
11	132	3353	3378	3404	3429	3454	3480	3505	3531	3556	3581	3607	3632	3658
12	144	3658	3683	3708	3734	3759	3785	3810	3835	3861	3886	3912	3937	3962
13	156	3962	3988	4013	4039	4064	4089	4115	4140	4166	4191	4216	4242	4267
14	168	4267	4293	4318	4343	4369	4394	4420	4445	4470	4496	4521	4547	4572
15	180	4572	4597	4623	4648	4674	4699	4724	4750	4775	4801	4826	4851	4877
16	192	4877	4902	4928	4953	4978	5004	5029	5055	5080	5105	5131	5156	5182
17	204	5182	5207	5232	5258	5283	5309	5334	5359	5385	5410	5436	5461	5486
18	216	5486	5512	5537	5563	5588	5613	5639	5664	5690	5715	5740	5766	5791
19	228	5791	5817	5842	5867	5893	5918	5944	5969	5994	6020	6045	6071	6096
20	240	6096	6121	6147	6172	6198	6223	6248	6274	6299	6325	6350	6375	6401
21	252	6401	6426	6452	6477	6502	6528	6553	6579	6604	6629	6655	6680	6706
22	264	6706	6731	6756	6782	6807	6833	6858	6883	6909	6934	6960	6985	7010
23	276	7010	7036	7061	7087	7112	7137	7163	7188	7214	7239	7264	7290	7315
24	288	7315	7341	7366	7391	7417	7442	7467	7493	7518	7545	7569	7594	7620
25	300	7620	7645	7671	7696	7722	7747	7772	7798	7823	7849	7874	7899	7925
26	312	7925	7950	7975	8001	8026	8052	8077	8102	8128	8153	8179	8204	8230
27	324	8230	8255	8280	8306	8332	8357	8382	8408	8433	8458	8484	8509	8534
28	336	8534	8559	8585	8610	8636	8661	8686	8712	8737	8763	8788	8814	8839
29	348	8839	8864	8890	8915	8941	8966	8991	9017	9042	9068	9093	9118	9144
30	360	9144	9169	9195	9220	9246	9271	9296	9322	9347	9373	9398	9423	9449
31	372	9449	9474	9500	9525	9551	9576	9601	9627	9652	9677	9703	9728	9753
32	384	9754	9779	9804	9830	9855	9881	9906	9931	9957	9982	10008	10033	10058
33	396	10058	10083	10109	10134	10160	10185	10210	10236	10261	10287	10312	10337	10363
34	408	10363	10388	10414	10439	10465	10490	10515	10541	10566	10592	10617	10642	10668
35	420	10668	10693	10719	10744	10770	10795	10820	10846	10871	10897	10922	10947	10973
36	432	10973	10998	11024	11049	11075	11100	11125	11151	11176	11202	11227	11252	11278
37	444	11278	11303	11328	11354	11379	11405	11430	11455	11481	11506	11532	11557	11582
38	456	11582	11607	11633	11658	11684	11709	11734	11760	11785	11811	11836	11861	11887
39	468	11887	11912	11938	11963	11989	12014	12039	12065	12090	12116	12141	12166	12192
40	480	12192	12217	12243	12268	12294	12319	12344	12370	12395	12421	12446	12471	12497
41	492	12497	12522	12548	12573	12598	12624	12649	12675	12700	12725	12751	12776	12802
42	504	12802	12827	12852	12878	12903	12929	12954	12979	13005	13030	13056	13081	13106
43	516	13106	13132	13157	13183	13208	13233	13259	13284	13310	13335	13360	13386	13411
44	528	13411	13437	13462	13487	13513	13538	13564	13589	13614	13640	13665	13691	13716
45	540	13716	13741	13767	13792	13818	13843	13868	13894	13919	13945	13970	13995	14021
46	552	14021	14046	14072	14097	14122	14148	14173	14199	14224	14249	14275	14300	14326
47	564	14326	14351	14376	14402	14427	14453	14478	14503	14529	14554	14580	14605	14630
48	576	14630	14656	14681	14707	14732	14757	14783	14808	14834	14859	14884	14910	14935
49	588	14935	14961	14986	15011	15037	15062	15088	15113	15138	15164	15189	15215	15240
50	600	15240	15265	15291	15316	15342	15367	15392	15418	15443	15469	15494	15519	15545
51	612	15545	15570	15596	15621	15646	15672	15697	15723	15748	15773	15799	15824	15850
52	624	15850	15875	15900	15926	15951	15977	16002	16027	16053	16078	16104	16129	16154
53	636	16154	16180	16205	16231	16256	16281	16307	16332	16358	16383	16408	16434	16459
54	648	16459	16485	16510	16535	16561	16586	16612	16637	16662	16688	16713	16739	16764
	in	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"

Conversion
of units

CONVERSION OF UNITS

Conversion Factors
Conversion Tables

Conversion factors

Conversion tables

- 1 millimetres to inches
- 2 decimals of inch to millimetres
- 3 inches and fractions of inch to millimetres
- 4 feet and inches to metres
- 5 metres to feet
- 6 feet to metres
- 7 metres to yards
- 8 yards to metres
- 9 kilometres to miles
- 10 miles to kilometres
- 11 square centimetres to square inches
- 12 square inches to square centimetres
- 13 square metres to square feet
- 14 square feet to square metres
- 15 square metres to square yards
- 16 square yards to square metres
- 17 hectares to acres
- 18 acres to hectares
- 19 cubic centimetres to cubic inches
- 20 cubic inches to cubic centimetres
- 21 cubic metres to cubic feet
- 22 cubic feet to cubic metres
- 23 litres to cubic feet
- 24 cubic feet to litres
- 25 litres to imperial gallons
- 26 imperial gallons to litres
- 27 litres to US gallons
- 28 US gallons to litres
- 29 kilograms to pounds
- 30 pounds to kilograms
- 31 kilograms per cubic metre to pounds per cubic foot
- 32 pounds per cubic foot to kilograms per cubic metre
- 33 metres per second to miles per hour
- 34 miles per hour to metres per second
- 35 kilograms force per square centimetre to pounds force per square inch
- 36 pounds force per square inch to kilograms force per square centimetre
- 37 kilonewtons per square metre to pounds force per square inch
- 38 pounds force per square inch to kilonewtons per square metre
- 39 watts to British thermal units per hour
- 40 British thermal units per hour to watts
- 41 watts per square metre kelvin to British thermal units per square foot hour degree F
- 42 British thermal units per square foot hour degree F to watts per square metre kelvin

CONVERSION OF UNITS

Conversion Factors

metric	'imperial'/US	metric	'imperial'/US
length		mass/unit area	
1.0 mm	0.039 in	1.0 g/m ²	0.003 oz/ft ²
25.4 mm (2.54 cm)	1 in	33.91 g/m ²	1 oz/yd ²
304.8 mm (30.48 cm)	1 ft	305.15 g/m ²	1 oz/ft ²
914.4 mm	1 yd	0.011 kg/m ²	1 cwt US/acre
1000.0 mm (1.0 m)	1 yd 3.4 in (1.093 yd)	0.013 kg/m ²	1 cwt imp/acre
20.117 m	1 chain	0.224 kg/m ²	1 ton US/acre
1000.00 m (1 km)	0.621 mile	0.251 kg/m ²	1 ton imp/acre
1609.31 m	1 mile	1.0 kg/m ²	29.5 oz/yd ²
area		4.882 kg/m ²	1 lb/ft ²
100 mm ² (1.0 cm ²)	0.155 in ²	703.07 kg/m ²	1 lb/in ²
645.2 mm ² (6.452 cm ²)	1 in ²	350.3 kg/km ² (3.503 kg/ha;	1 ton US/mile ²
929.03 cm ² (0.093 m ²)	1 ft ²	0.35 g/m ²)	
0.836 m ²	1 yd ²	392.3 kg/km ² (3.923 kg/ha;	1 ton imp/mile ²
1.0m ²	1.196 yd ² (10.764 ft ²)	0.392 g/m ²)	
0.405 ha (4046.9 m ²)	1 acre	density (mass/volume)	
1.0 ha (10000 m ²)	2.471 acre	0.593 kg/m ³	1 lb/yd ³
1.0 km ²	0.386 mile ²	1.0 kg/m ³	0.062 lb/ft ³
2.59 km ² (259 ha)	1 mile ²	16.02 kg/m ³	1 lb/ft
volume		1186.7 kg/m ³ (1.187 t/m ³)	1 ton US/yd ³
1000 mm ³ (1.0 cm ³ ; 1.0 ml)	0.061 in ³	1328.9 kg/m ³ (1.329 t/m ³)	1 ton imp/yd ³
16387 mm ³ (16.387 cm ³ ;	1 in ³	27680.0 kg/m ³ (27.68 t/m ³ ;	1 lb/in ³
0.01641; 16.387 ml)		27.68 g/cm ³)	
1.01(1.0 dm ³ ; 1000 cm ³)	61.025 in ³ (0.035 ft ³)	specific surface (area/unit	
0.028 m ³ (28.321)	1 ft ³	mass)	
0.765 m ³	1 yd ³	0.823 m ² /t	1 yd ² /ton
1.0 m ³	1.308 yd ³ (35.314 ft ³)	1.0m ² /kg	0.034 yd ² /oz
capacity		29.493 m ² /kg	1 yd ² /oz
1.0 ml	0.034 fl oz US	area/unit capacity	
1.0 ml	0.035 fl oz imp	0.184 m ² /l	1 yd ² /gal
28.41 ml	1 fl oz imp	1.0m ² /l	5.437 yd ² /gal
29.57 ml	1 fl oz US	concentration	
0.473 litre	1 pint (liquid) US	0.014 kg/m ³	1 grain/gal imp
0.568 litre	1 pint imp	0.017 kg/m ³	1 grain/gal US
1.0 litre	1.76 pint imp	1.0 kg/m ³ (1.0 g/l)	58.42 grain/gal US
1.0 litre	2.113 pint US	1.0 kg/m ³ (1.0 g/l)	70.16 grain/gal imp
3.785 litre	1 gal US	6.236 kg/m ³	1 oz/gal imp
4.546 litre	1 gal imp	7.489 kg/m ³	1oz/galUS
100.0 litre	21.99 gal imp	mass rate of flow	
100.0 litre	26.42 gal US	0.454 kg/s	1 lb/s
159.0 litre	1 barrel US	1.0 kg/s	2.204 lb/s
164.0 litre	1 barrel imp	volume rate of flow	
mass		0.063 l/s	1 gal US/minute
1.0g	0.035 oz (avoirdupois)	0.076 l/s	1 gal imp/minute
28.35 g	1 oz (avoirdupois)	0.472 l/s	1 ft ³ /minute
454.0 g (0.454 kg)	1lb	1.0 l/s (86.4 m ³ /day)	13.2gal imp/s
1000.0 g (1kg)	2.205lb	1.0 l/s	0.264 gal US/s
45.36 kg	1 cwt US	1.01/min	0.22 gal imp/min
50.8 kg	1 cwt imp	1.01/min	0.264 gal US/min
907.2 kg (0.907t)	1 ton US	3.785 l/s	1 gal US/s
1000.0 kg (1.0t)	1 ton imp	4.546 l/s	1 gal imp/s
1000.0 kg (1.0t)	0.984 ton imp	28.32 l/s	1 ft ³ /s
1000.0 kg (1.0t)	1.102 ton US	0.0038 m ³ /min	1 gal US/min
1016.0 kg (1.016t)	1 ton imp	0.0045 m ³ /min	1 gal imp/min
mass/unit length		1.0 m ³ /s	183.162 gal US/s
0.496 kg/m	1 lb/yd	1.0 m ³ /s	219.969 gal imp/s
0.564 kg/m (0.564 t/km)	1 ton US/mile	1.0m ³ /h	35.31 ft ³ /h
0.631 kg/m (0.631 t/km)	1 ton imp/mile	0.0283 m ³ /s	1 ft ³ /s
1.0 kg/m	0.056 lb/in (0.896 oz/in)	velocity	
1.116kg/m	1 oz/in	0.005 m/s	1 ft/minute
1.488 kg/m	1 lb/ft	0.025 m/s	1 in/s
17.86 kg/m	1 lb/in	0.305 m/s	1 ft/s
length/unit mass		1.0 m/s	3.28 ft/s
1.0 m/kg	0.496 yd/lb	1000.0 m/hr(1 km/hr)	0.621 mile/hr
2.016 m/kg	1 yd/lb	1609.0 m/hr (0.447 m/s)	1 mile/hr

Conversion
of units

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Conversion Factors

metric	'imperial'/US	metric	'imperial'/US
fuel consumption		refrigeration	
1.0 l/km	0.354 gal imp/mile	3.517 kW	12000 Btu/hr = 'ton of refrigeration'
1.0 l/km	0.425 gal US/mile		
2.352 l/km	1 gal US/mile	illumination	
2.824 l/km	1 gal imp/mile	1 lx (1 lumen/m ²)	0.093 ft-candle (0.093 lumen/ft ²)
acceleration		10.764 lx	1.0ft-candle(1 lumen/ft ²)
0.305 m/s ²	1 ft/s ²	luminance	
1.0 m/s ²	3.28 ft/s ²	0.3183 cd/m ²	1 apostilb
9.806 m/s ² = g (standard acceleration due to gravity)	g = 32.172 ft/s ²	1.0 cd/m ²	0.000645 cd/ft ²
temperature		10.764 cd/m ²	1 cd/ft ²
X°C	(% X + 32)°F	1550.0 cd/m ²	1.0 cd/in ²
% ξ(X-32)°C	X°F	force	
temperature interval		1.0N	0.225 lbf
0.5556 K	1°F	1.0 kgf (9.807 N; 1.0 kilopond)	2.205 lbf
1 K = 1°C	1.8°F	4.448 kN	1.0 kipf (1000 lbf)
energy		8.897 kN	1.0 tonf US
1.0J	0.239 calorie	9.964 kN	1.0 tonf imp
1.356 J	1 ft lbf	force/unit length	
4.187J	1.0 calorie	1.0 N/m	0.067 lbf/ft
9.807 J(1 kg fm)	7.233 ft lbf	14.59 N/m	1.0 lbf/fl
1055.06 J	1 Btu	32.69 kN/m	1.0 tonf/ft
3.6 MJ	1 kilowatt-hr	175.1 kN/m (175.1 N/mm)	1.0 lbf/in
105.5 MJ	1 therm (100 000 Btu)	moment of force (torque)	
power (energy/time)		0.113 Nm (113.0Nmm)	1.0 lbf in
0.293 W	1 Btu/hr	1.0 Nm	0.738 lbf ft
1.0 W	0.738 ft lbf/s	1.356 Nm	1.0 lbf ft
1.163 W	1.0 kilocalorie/hr	113.0 Nm	1.0 kipf in
1.356 W	1 ft lbf/s	253.1 Nm	1.0 tonf in
4.187 W	1 calorie/s	1356.0 Nm	1.0 kipf ft
1 kgf m/s (9.807 W)	7.233 ft lbf/s	3037.0 Nm	1.0 tonf ft
745.7 W	1 horsepower	pressure	
1 metric horsepower (75 kgf m/s)	0.986 horsepower	1.0 Pa (1.0 N/m ²)	0.021 lbf/ft ²
intensity of heat flow rate		1.0 kPa	0.145 lbf/in ²
1 W/m ²	0.317 Btu/(ft ² hr)	100.0 Pa	1.0 millibar
3.155 W/m ²	1.0 Btu/(ft ² hr)	2.99 kPa	1 ft water
thermal conductivity		3.39 kPa	1 in mercury
0.144 W/(m.K)	1 Btu in/(ft ² hr°F)	6.9 kPa	1.0 lbf/in ²
1.0 W/(m.K)	6.933 Btu in/(ft ² hr°F)	100.0 kPa	1.0 bar
thermal conductance		101.33 kPa	1.0 standard atmosphere
1.0 W/(m ² .K)	0.176 Btu/(ft ² hr°F)	107.25 kPa	1.0 tonf/ft ²
5.678 W/(m ² .K)	1.0 Btu/(ft ² hr°F)	15.44 MPa	1.0 tonf/in ²
thermal registivity			
1.0 m K/W	0.144 ft ² hr°F/(Btuin)		
6.933 m K/W	1.0 ft ² hr°F/(Btu in)		
specific heat capacity			
1.0 kJ/(kg.K)	0.239 Btu/(lb°F)		
4.187 kJ/(kg.K)	1.0 Btu/(lb°F)		
1.0 kJ/(m ³ K)	0.015 Btu/(ft ³ °F)		
67.07 kJ/(m ³ K)	1.0 Btu/(ft ³ °F)		
specific energy			
1.0 kJ/kg	0.43 Btu/lb		
2.326 kJ/kg	1.0 Btu/lb		
1.0 kJ/m ³ (1 kJ/l)	0.027 Btu/ft ³		
1.0 J/l	0.004 Btu/gal		
232.1 J/l	1.0 Btu/gal		

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

Length	mm	0	1	2	3	4	5	6	7	8	9
	in										
1 millimetres to inches	0		0.04	0.08	0.11	0.16	0.2	0.24	0.28	0.31	0.35
	10	0.39	0.43	0.47	0.51	0.55	0.59	0.63	0.67	0.71	0.75
	20	0.79	0.83	0.87	0.91	0.94	0.98	1.02	1.06	1.1	1.14
	30	1.18	1.22	1.25	1.3	1.34	1.38	1.41	1.46	1.5	1.57
	40	1.57	1.61	1.65	1.69	1.73	1.77	1.81	1.85	1.89	1.93
	50	1.97	2.00	2.05	2.09	2.13	2.17	2.21	2.24	2.28	2.32
	60	2.36	2.4	2.44	2.48	2.52	2.56	2.6	2.64	2.68	2.72
	70	2.76	2.8	2.83	2.87	2.91	2.95	3.0	3.03	3.07	3.11
	80	3.15	3.19	3.23	3.27	3.31	3.35	3.39	3.42	3.46	3.5
	90	3.54	3.58	3.62	3.66	3.7	3.74	3.78	3.82	3.86	3.9
	100	3.94	3.98	4.02	4.06	4.09	4.13	4.17	4.21	4.25	4.29
	110	4.33	4.37	4.41	4.45	4.49	4.53	4.57	4.61	4.65	4.69
	120	4.72	4.76	4.8	4.84	4.88	4.92	4.96	5.0	5.04	5.08
	130	5.12	5.16	5.2	5.24	5.28	5.31	5.35	5.39	5.43	5.47
	140	5.51	5.55	5.59	5.63	5.67	5.71	5.75	5.79	5.83	5.87
	150	5.91	5.94	5.98	6.02	6.06	6.1	6.14	6.18	6.22	6.26
	160	6.3	6.34	6.38	6.42	6.46	6.5	6.54	6.57	6.61	6.65
	170	6.69	6.73	6.77	6.81	6.85	6.89	6.93	6.97	7.01	7.05
	180	7.09	7.13	7.17	7.21	7.24	7.28	7.32	7.36	7.4	7.44
	190	7.48	7.52	7.56	7.6	7.64	7.68	7.72	7.76	7.8	7.83
	200	7.87	7.91	7.95	7.99	8.03	8.07	8.11	8.15	8.19	8.23
	210	8.27	8.31	8.35	8.39	8.43	8.46	8.5	8.54	8.58	8.62
	220	8.66	8.7	8.74	8.78	8.82	8.86	8.9	8.94	8.98	9.02
	230	9.06	9.09	9.13	9.17	9.21	9.25	9.29	9.33	9.37	9.41
	240	9.45	9.49	9.53	9.57	9.61	9.65	9.69	9.72	9.76	9.8
	250	9.84									

2 decimals of inch to millimetres	in	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
	mm										
	0.0		0.0254	0.0508	0.0762	0.1016	0.127	0.1524	0.1778	0.2032	0.2286
	0.01	0.254	0.2794	0.3048	0.3302	0.3556	0.381	0.4064	0.4318	0.4572	0.4826
	0.02	0.508	0.5334	0.5588	0.5842	0.6096	0.635	0.6604	0.6858	0.7112	0.7366
	0.03	0.762	0.7874	0.8128	0.8382	0.8636	0.889	0.9144	0.9398	0.9652	0.9906
	0.04	1.016	1.0414	1.0668	1.0922	1.1176	1.143	1.1684	1.1938	1.2192	1.2446
	0.05	1.27	1.2954	1.3208	1.3462	1.3716	1.397	1.4224	1.4478	1.4732	1.4986
	0.06	1.524	1.5494	1.5748	1.6002	1.6256	1.651	1.6764	1.7018	1.7272	1.7526
	0.07	1.778	1.8034	1.8288	1.8542	1.8796	1.905	1.9304	1.9558	1.9812	2.0066
	0.08	2.032	2.0574	2.0828	2.1082	2.1336	2.159	2.1844	2.2098	2.2352	2.2606
	0.09	2.286	2.3114	2.3368	2.3622	2.3876	2.413	2.4384	2.4638	2.4892	2.5146
	0.1	2.54									

3 inches and fractions of inch to millimetres	in	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16
	mm															
		1.6	3.2	4.8	6.4	7.9	9.5	11.1	12.7	14.3	15.9	17.5	19.1	20.6	22.2	23.8
	1	25.4	27.0	28.2	30.2	31.8	33.3	34.9	36.5	38.1	39.7	41.3	42.9	44.5	46.0	47.6
	2	50.8	52.4	54.0	55.6	57.2	58.7	60.3	61.9	63.5	65.1	66.7	68.3	69.9	71.4	73.0
	3	76.2	77.8	79.4	81.0	82.6	84.1	85.7	87.3	88.9	90.5	92.1	93.7	95.3	96.8	98.4
	4	101.6	103.2	104.8	106.4	108.0	109.5	111.1	112.7	114.3	115.9	117.5	119.1	120.7	122.2	123.8
	5	127.0	128.6	130.2	131.8	133.4	134.9	136.5	138.1	139.7	141.3	142.9	144.5	146.1	147.6	149.2
	6	152.4	154.0	155.6	157.2	158.8	160.3	161.9	163.5	165.1	166.7	168.3	169.9	171.5	173.0	174.6
	7	177.8	179.4	181.0	182.6	184.2	185.7	187.3	188.9	190.5	192.1	193.7	195.3	196.9	198.4	200.0
	8	203.2	204.8	206.4	208.0	209.6	211.1	212.7	214.3	215.9	217.5	219.1	220.7	222.3	223.8	225.4
	9	228.6	230.2	231.8	233.4	235.0	236.5	238.1	239.7	241.3	242.9	244.5	246.1	247.7	249.2	250.8
	10	254.0	255.6	257.2	258.8	260.4	261.9	263.5	265.1	266.7	268.3	269.9	271.5	273.1	274.6	276.2

4 feet and inches to metres	in															
	0	1	2	3	4	5	6	7	8	9	10	11				
	m															
	ft															
	0		0.0254	0.0508	0.0762	0.1016	0.127	0.1524	0.1778	0.2032	0.2286	0.254	0.2794			
	1	0.3048	0.3302	0.3556	0.381	0.4064	0.4318	0.4572	0.4826	0.508	0.5334	0.5588	0.5842			
	2	0.6096	0.635	0.6604	0.6858	0.7112	0.7366	0.762	0.7874	0.8128	0.8382	0.8636	0.889			
	3	0.9144	0.9398	0.9652	0.9906	1.016	1.0414	1.0668	1.0922	1.1176	1.143	1.1684	1.1938			
	4	1.2192	1.2446	1.27	1.2954	1.3208	1.3462	1.3716	1.397	1.4224	1.4478	1.4732	1.4986			
	5	1.524	1.5494	1.5748	1.6002	1.6256	1.651	1.6764	1.7018	1.7272	1.7526	1.778	1.8034			
	6	1.8288	1.8542	1.8796	1.905	1.9304	1.9558	1.9812	2.0066	2.032	2.0574	2.0828	2.1082			
	7	2.1336	2.159	2.1844	2.2098	2.2352	2.2606	2.286	2.3114	2.3368	2.3622	2.3876	2.413			
	8	2.4384	2.4638	2.4892	2.5146	2.54	2.5654	2.5908	2.6162	2.6416	2.667	2.6924	2.7178			
	9	2.7432	2.7686	2.794	2.8194	2.8448	2.8702	2.8956	2.921	2.9464	2.9718	2.9972	3.0226			
	10	3.048														

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

m	0	1	2	3	4	5	6	7	8	9
ft										
0		3.28	6.56	9.84	13.12	16.40	19.69	22.97	26.25	29.53
10	32.8	36.09	39.37	42.65	45.93	49.21	52.49	55.77	59.06	62.34
20	65.62	68.9	72.17	75.45	78.74	82.02	85.3	88.58	91.86	95.14
30	98.43	101.7	104.99	108.27	111.55	114.82	118.11	121.39	124.67	127.95
40	131.23	134.51	137.8	141.08	144.36	147.63	150.91	154.2	157.48	160.76
50	164.04	167.32	170.6	173.89	177.17	180.45	183.73	187.01	190.29	193.57
60	196.85	200.13	203.41	206.69	209.97	213.25	216.54	219.82	223.1	226.38
70	229.66	232.94	236.22	239.5	242.78	246.06	249.34	252.63	255.91	259.19
80	262.46	265.75	269.03	272.31	275.59	278.87	282.15	285.43	288.71	292.0
90	295.28	298.56	301.84	305.12	308.4	311.68	314.96	318.24	321.52	324.8
100	328.08	331.37	334.65	337.93	341.21	344.49	347.77	351.05	354.33	357.61
110	360.89	364.17	367.45	370.74	374.02	377.3	380.58	383.86	387.14	390.42
120	393.7	396.98	400.26	403.54	406.82	410.1	413.39	416.67	419.95	423.23
130	426.51	429.79	433.07	436.35	439.63	442.91	446.19	449.48	452.76	456.04
140	459.32	462.6	465.88	469.16	472.44	475.72	479.0	482.28	485.56	488.85
150	492.13	495.41	498.69	502.0	505.25	508.53	511.81	515.09	518.37	521.65
160	524.93	528.22	531.5	534.78	538.06	541.34	544.62	547.9	551.18	554.46
170	557.74	561.02	564.3	567.59	570.87	574.15	577.43	580.71	583.99	587.27
180	590.55	593.83	597.11	600.39	603.68	606.96	610.24	613.52	616.8	620.08
190	623.36	626.64	629.92	633.2	636.48	639.76	643.05	646.33	649.6	652.89
200	656.17	659.45	662.73	666.01	669.29	672.57	675.85	679.13	682.42	685.7
210	688.98	692.26	695.54	698.82	702.1	705.38	708.66	711.94	715.22	718.5
220	721.79	725.07	728.35	731.63	734.91	738.19	741.47	744.75	748.03	751.31
230	754.59	757.87	761.16	764.44	767.72	771.0	774.28	777.56	780.84	784.12
240	787.4	790.68	793.96	797.24	800.53	803.81	807.09	810.37	813.65	816.93
250	820.21									

5
metres to feet

m	0	1	2	3	4	5	6	7	8	9
yd										
0		1.09	2.19	3.28	4.37	5.47	6.56	7.66	8.75	9.84
10	10.94	12.03	13.12	14.22	15.31	16.4	17.5	18.59	19.69	20.78
20	21.87	22.97	24.06	25.15	26.25	27.34	28.43	29.53	30.62	31.71
30	32.8	33.9	35.0	36.09	37.18	38.28	39.37	40.46	41.56	42.65
40	43.74	44.84	45.93	47.03	48.12	49.21	50.31	51.4	52.49	53.59
50	54.68	55.77	56.87	57.96	59.06	60.15	61.24	62.34	63.43	64.52
60	65.62	66.71	67.8	68.9	69.99	71.08	72.18	73.27	74.37	75.46
70	76.55	77.65	78.74	79.83	80.93	82.02	83.11	84.21	85.3	86.4
80	87.49	88.58	89.68	90.77	91.86	92.96	94.05	95.14	96.24	97.33
90	98.43	99.52	100.61	101.7.1	102.8	103.89	104.99	106.08	107.17	108.27
100	109.36	110.46	111.55	112.64	113.74	114.83	115.92	117.02	118.11	119.2
110	120.3	121.39	122.49	123.58	124.67	125.74	126.86	127.95	129.05	130.14
120	131.23	132.33	133.42	134.51	135.61	136.7	137.8	138.89	139.99	141.08
130	142.17	143.26	144.36	145.45	146.54	147.64	148.73	149.83	150.92	152.01
140	153.1	154.2	155.29	156.39	157.48	158.57	159.67	160.76	161.86	162.95
150	164.04	165.14	166.23	167.32	168.42	169.51	170.6	171.7	172.79	173.89
160	174.98	176.07	177.17	178.26	179.35	180.45	181.54	182.63	183.73	184.82
170	185.91	187.0	188.1	189.2	190.29	191.38	192.48	193.57	194.66	195.76
180	196.85	197.94	199.04	200.13	201.23	202.32	203.41	204.51	205.6	206.69
190	207.79	208.88	209.97	211.07	212.16	213.26	214.35	215.44	216.53	217.63
200	218.72	219.82	220.91	222.0	223.1	224.19	225.28	226.38	227.47	228.57
210	229.66	230.75	231.85	232.94	234.03	235.13	236.22	237.31	238.41	239.5
220	240.56	241.69	242.78	243.88	244.97	246.06	247.16	248.25	249.34	250.44
230	251.53	252.63	253.72	254.81	255.91	257.0	258.09	259.19	260.28	261.37
240	262.47	263.56	264.65	265.75	266.84	267.94	269.03	270.12	271.22	272.31
250	273.4									

7
metres to yards

km	0	1	2	3	4	5	6	7	8	9
mile										
0		0.62	1.24	1.86	2.49	3.11	3.73	4.35	4.98	5.59
10	6.21	6.84	7.46	8.08	8.7	9.32	9.94	10.56	11.18	11.81
20	12.43	13.05	13.67	14.29	14.91	15.53	16.16	16.78	17.4	18.02
30	18.64	19.29	19.88	20.5	21.13	21.75	22.37	22.99	23.61	24.23
40	24.85	25.47	26.1	26.72	27.34	27.96	28.58	29.2	29.83	30.45
50	31.07	31.69	32.31	32.93	33.55	34.18	34.8	35.42	36.04	36.66
60	37.28	37.9	38.53	39.15	39.77	40.39	41.01	41.63	42.25	42.87
70	43.5	44.12	44.74	45.36	45.98	46.6	47.22	47.85	48.47	49.09
80	49.7	50.33	50.95	51.57	52.2	52.82	53.44	54.06	54.68	55.3
90	55.92	56.54	57.17	57.79	58.41	59.03	59.65	60.27	60.89	61.52
100	62.14									

9
kilometres
to miles

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

6 feet to metres	ft	0	1	2	3	4	5	6	7	8	9
	m										
	0	10	20	30	40	50	60	70	80	90	100
	0	3.05	6.1	9.14	12.19	15.24	18.29	21.33	24.38	27.43	30.48
	10	3.35	6.4	9.45	12.5	15.54	18.59	21.64	24.69	27.74	30.78
	20	3.66	6.71	9.75	12.80	15.85	18.9	21.95	24.99	28.04	31.09
	30	3.96	7.01	10.06	13.1	16.15	19.2	22.25	25.3	28.35	31.39
	40	4.27	7.31	10.36	13.41	16.46	19.58	22.56	25.6	28.65	31.7
	50	4.57	7.62	10.67	13.72	16.76	19.81	22.86	25.91	28.96	32.0
	60	4.88	7.92	10.97	14.02	17.07	20.12	23.16	26.21	29.26	32.31
	70	5.18	8.23	11.28	14.36	17.37	20.42	23.47	26.52	29.57	32.61
	80	5.49	8.53	11.58	14.63	17.68	20.73	23.77	26.82	29.87	32.92
	90	5.79	8.84	11.89	14.94	17.98	21.03	24.08	27.13	30.18	33.22
	100	6.09	9.14	12.19	15.24	18.29	21.33	24.38	27.43	30.48	33.53
	110	6.39	9.45	12.5	15.54	18.59	21.64	24.69	27.74	30.78	33.83
	120	6.69	9.75	12.80	15.85	18.9	21.95	24.99	28.04	31.09	34.14
	130	6.99	10.06	13.1	16.15	19.2	22.25	25.3	28.35	31.39	34.44
	140	7.29	10.36	13.41	16.46	19.58	22.56	25.6	28.65	31.7	34.75
	150	7.59	10.67	13.72	16.76	19.81	22.86	25.91	28.96	32.0	35.05
	160	7.89	10.97	14.02	17.07	20.12	23.16	26.21	29.26	32.31	35.35
	170	8.19	11.28	14.36	17.37	20.42	23.47	26.52	29.57	32.61	35.65
	180	8.49	11.58	14.63	17.68	20.73	23.77	26.82	29.87	32.92	35.95
	190	8.79	11.89	14.94	17.98	21.03	24.08	27.13	30.18	33.22	36.25
	200	9.09	12.19	15.24	18.29	21.33	24.38	27.43	30.48	33.53	36.55
	210	9.39	12.5	15.54	18.59	21.64	24.69	27.74	30.78	33.83	36.85
	220	9.69	12.80	15.85	18.9	21.95	24.99	28.04	31.09	34.14	37.15
	230	9.99	13.1	16.15	19.2	22.25	25.3	28.35	31.39	34.44	37.45
	240	10.29	13.41	16.46	19.58	22.56	25.6	28.65	31.7	34.75	37.75
	250	10.59	13.72	16.76	19.81	22.86	25.91	28.96	32.0	35.05	38.05

8 yards to metres	yd	0	1	2	3	4	5	6	7	8	9
	m										
	0	10	20	30	40	50	60	70	80	90	100
	0	0.91	1.83	2.74	3.65	4.57	5.49	6.4	7.32	8.23	9.14
	10	1.06	2.06	3.05	4.04	5.03	6.02	7.01	8.00	8.99	9.98
	20	1.21	2.21	3.20	4.19	5.18	6.17	7.16	8.15	9.14	10.13
	30	1.36	2.36	3.35	4.34	5.33	6.32	7.31	8.30	9.29	10.28
	40	1.51	2.51	3.50	4.49	5.48	6.47	7.46	8.45	9.44	10.43
	50	1.66	2.66	3.65	4.64	5.63	6.62	7.61	8.60	9.59	10.58
	60	1.81	2.81	3.80	4.79	5.78	6.77	7.76	8.75	9.74	10.73
	70	1.96	2.96	3.95	4.94	5.93	6.92	7.91	8.90	9.89	10.88
	80	2.11	3.11	4.10	5.09	6.08	7.07	8.06	9.05	10.04	11.03
	90	2.26	3.26	4.25	5.24	6.23	7.22	8.21	9.20	10.19	11.18
	100	2.41	3.41	4.40	5.39	6.38	7.37	8.36	9.35	10.34	11.33
	110	2.56	3.56	4.55	5.54	6.53	7.52	8.51	9.50	10.49	11.48
	120	2.71	3.71	4.70	5.69	6.68	7.67	8.66	9.65	10.64	11.63
	130	2.86	3.86	4.85	5.84	6.83	7.82	8.81	9.80	10.79	11.78
	140	3.01	4.01	5.00	5.99	6.98	7.97	8.96	9.95	10.94	11.93
	150	3.16	4.16	5.15	6.14	7.13	8.12	9.11	10.10	11.09	12.08
	160	3.31	4.31	5.30	6.29	7.28	8.27	9.26	10.25	11.24	12.23
	170	3.46	4.46	5.45	6.44	7.43	8.42	9.41	10.40	11.39	12.38
	180	3.61	4.61	5.60	6.59	7.58	8.57	9.56	10.55	11.54	12.53
	190	3.76	4.76	5.75	6.74	7.73	8.72	9.71	10.70	11.69	12.68
	200	3.91	4.91	5.90	6.89	7.88	8.87	9.86	10.85	11.84	12.83
	210	4.06	5.06	6.05	7.04	8.03	9.02	10.01	11.00	11.99	12.98
	220	4.21	5.21	6.20	7.19	8.18	9.17	10.16	11.15	12.14	13.13
	230	4.36	5.36	6.35	7.34	8.33	9.32	10.31	11.30	12.29	13.28
	240	4.51	5.51	6.50	7.49	8.48	9.47	10.46	11.45	12.44	13.43
	250	4.66	5.66	6.65	7.64	8.63	9.62	10.61	11.60	12.59	13.58

10 miles to kilometres	mile	0	1	2	3	4	5	6	7	8	9
	km										
	0	10	20	30	40	50	60	70	80	90	100
	0	1.61	3.22	4.83	6.44	8.05	9.66	11.27	12.87	14.48	16.09
	10	1.76	3.52	5.13	6.74	8.35	9.96	11.57	13.17	14.78	16.39
	20	1.91	3.83	5.44	7.05	8.66	10.27	11.88	13.48	15.09	16.70
	30	2.06	4.13	5.74	7.35	8.96	10.57	12.18	13.78	15.39	16.99
	40	2.21	4.44	6.05	7.66	9.27	10.88	12.48	14.09	15.69	17.30
	50	2.36	4.74	6.35	7.96	9.57	11.18	12.78	14.39	15.99	17.60
	60	2.51	5.05	6.66	8.27	9.88	11.48	13.09	14.69	16.30	17.90
	70	2.66	5.35	6.96	8.57	10.18	11.79	13.39	14.99	16.60	18.20
	80	2.81	5.66	7.27	8.88	10.48	12.09	13.69	15.30	16.90	18.50
	90	2.96	5.96	7.57	9.18	10.79	12.39	13.99	15.60	17.20	18.80
	100	3.11	6.27	7.88	9.49	11.09	12.69	14.30	15.90	17.50	19.10
	110	3.26	6.57	8.18	9.79	11.39	12.99	14.60	16.20	17.80	19.40
	120	3.41	6.88	8.49	10.10	11.70	13.30	14.90	16.50	18.10	19.70
	130	3.56	7.18	8.79	10.40	12.00	13.60	15.20	16.80	18.40	20.00
	140	3.71	7.49	9.10	10.71	12.31	13.91	15.51	17.11	18.71	20.30
	150	3.86	7.79	9.40	11.01	12.61	14.21	15.81	17.41	19.01	20.60
	160	4.01	8.10	9.71	11.32	12.92	14.52	16.12	17.72	19.32	20.90
	170	4.16	8.40	10.01	11.62	13.22	14.82	16.42	18.02	19.62	21.20
	180	4.31	8.71	10.32	11.93	13.53	15.13	16.73	18.33	19.93	21.50
	190	4.46	9.01	10.62	12.23	13.83	15.43	17.03	18.63	20.23	21.80
	200	4.61	9.32	10.93	12.54	14.14	15.74	17.34	18.94	20.54	22.10
	210	4.76	9.62	11.23	12.84	14.44	16.04	17.64	19.24	20.84	22.40
	220	4.91	9.93	11.54	13.15	14.75	16.35	17.95	19.55	21.14	22.70
	230	5.06	10.23	11.84	13.45	15.05	16.65	18.25	19.85	21.44	23.00
	240	5.21	10.54	12.15	13.76	15.36	16.96	18.56	20.15	21.74	23.30
	250	5.36	10.84	12.45	14.06	15.66	17.26	18.86	20.45	22.04	23.60

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

cm ²	0	1	2	3	4	5	6	7	8	9
in ²										
0		0.16	0.31	0.47	0.62	0.78	0.93	1.09	1.24	1.4
10	1.6	1.71	1.86	2.02	2.17	2.33	2.48	2.64	2.79	2.95
20	3.1	3.26	3.41	3.57	3.72	3.88	4.03	4.19	4.34	4.5
30	4.65	4.81	4.96	5.12	5.27	5.43	5.58	5.74	5.9	6.05
40	6.2	6.36	6.51	6.67	6.82	6.98	7.13	7.29	7.44	7.6
50	7.75	7.91	8.06	8.22	8.37	8.53	8.68	8.84	9.0	9.15
60	9.3	9.46	9.61	9.77	9.92	10.08	10.23	10.39	10.54	10.7
70	10.85	11.01	11.16	11.32	11.47	11.63	11.78	11.94	12.09	12.25
80	12.4	12.56	12.71	12.87	13.02	13.18	13.33	13.49	13.64	13.8
90	13.95	14.11	14.26	14.42	14.57	14.73	14.88	15.04	15.19	15.35
100	15.5	15.66	15.81	15.97	16.12	16.28	16.43	16.59	16.74	16.9
110	17.05	17.21	17.36	17.52	17.67	17.83	17.98	18.14	18.29	18.45
120	18.6	18.76	18.91	19.07	19.22	19.38	19.53	19.69	19.84	20.0
130	20.15	20.31	20.46	20.62	20.77	20.93	21.08	21.24	21.39	21.55
140	21.7	21.86	22.01	22.17	22.32	22.48	22.63	22.79	22.94	23.1
150	23.25	23.41	23.56	23.72	23.87	24.03	24.18	24.34	24.49	24.65
160	24.8	24.96	25.11	25.27	25.42	25.58	25.73	25.89	26.04	26.2
170	26.35	26.51	26.66	26.82	26.97	27.13	27.28	27.44	27.59	27.75
180	27.9	28.06	28.21	28.37	28.52	28.68	28.83	28.99	29.14	29.3
190	29.45	29.61	29.76	29.92	30.07	30.23	30.38	30.54	30.69	30.85
200	31.0	31.16	31.31	31.47	31.62	31.78	31.93	32.09	32.24	32.4
210	32.55	32.71	32.86	33.02	33.17	33.33	33.48	33.64	33.79	33.95
220	34.1	34.26	34.41	34.57	34.72	34.88	35.03	35.19	35.34	35.5
230	35.65	35.81	35.96	36.12	36.27	36.43	36.58	36.75	36.89	37.05
240	37.20	37.36	37.51	37.67	37.82	37.98	38.13	38.29	38.44	38.6
250	38.75									

Area
11
square
centimetres to
square inches

m ²	0	1	2	3	4	5	6	7	8	9
ft ²										
0		10.76	21.53	32.29	43.06	53.82	64.58	75.35	86.11	96.88
10	107.64	118.4	129.17	139.93	150.66	161.46	172.22	182.97	193.75	204.51
20	215.29	226.01	236.81	247.57	258.33	269.1	279.86	290.63	301.39	312.15
30	322.92	333.68	344.45	355.21	365.97	376.74	387.5	398.27	409.03	419.79
40	430.56	441.32	452.08	462.85	473.61	484.38	495.14	505.91	516.67	527.43
50	538.2	548.96	559.72	570.49	581.25	592.02	602.78	613.54	624.31	635.07
60	645.84	656.6	667.36	678.13	688.89	699.65	710.42	721.18	731.95	742.71
70	753.47	764.24	775.0	785.77	796.53	807.29	818.06	828.82	839.59	850.35
80	861.11	871.88	882.64	893.41	904.17	914.93	925.7	936.46	947.22	957.99
90	968.75	979.52	990.28	1 001.04	1 011.81	1 022.57	1 033.34	1 044.1	1 054.86	1 065.63
100	1 076.39	1 087.15	1 097.92	1 108.68	1 119.45	1 130.21	1 140.97	1 151.74	1 162.5	1 173.27
110	1 184.03	1 194.79	1 205.56	1 216.32	1 227.09	1 237.85	1 248.61	1 259.38	1 270.14	1 280.91
120	1 291.67	1 302.43	1 313.2	1 323.96	1 334.72	1 345.49	1 356.25	1 367.02	1 377.78	1 388.54
130	1 399.31	1 410.07	1 420.84	1 431.6	1 442.36	1 453.13	1 463.89	1 474.66	1 485.42	1 496.18
140	1 506.95	1 517.71	1 528.48	1 539.24	1 550.0	1 560.77	1 571.53	1 582.29	1 593.06	1 603.82
150	1 614.59	1 625.35	1 636.11	1 646.88	1 657.64	1 668.41	1 679.17	1 689.93	1 700.7	1 711.46
160	1 722.23	1 732.99	1 743.75	1 754.52	1 765.28	1 776.05	1 786.81	1 797.57	1 808.34	1 819.1
170	1 829.86	1 840.63	1 851.39	1 862.16	1 872.92	1 883.68	1 894.45	1 905.21	1 915.98	1 926.74
180	1 937.5	1 948.27	1 959.03	1 969.8	1 980.56	1 991.32	2 002.09	2 012.85	2 023.62	2 034.38
190	2 045.14	2 055.91	2 066.67	2 077.43	2 088.2	2 098.96	2 109.73	2 120.49	2 131.25	2 142.02
200	2 152.78	2 163.55	2 174.31	2 185.07	2 195.84	2 206.6	2 217.37	2 228.13	2 238.89	2 249.66
210	2 260.42	2 271.19	2 281.95	2 292.71	2 303.48	2 314.24	2 325.0	2 335.77	2 346.53	2 357.3
220	2 368.06	2 378.82	2 389.59	2 400.35	2 411.12	2 421.88	2 432.64	2 443.41	2 454.17	2 464.94
230	2 475.7	2 486.46	2 497.23	2 507.99	2 518.76	2 529.52	2 540.28	2 551.05	2 561.81	2 572.57
240	2 583.34	2 594.1	2 604.87	2 615.63	2 626.39	2 637.16	2 647.92	2 658.69	2 669.45	2 680.21
250	2 690.98	2 701.74	2 712.51	2 723.27	2 734.03	2 744.8	2 755.56	2 766.32	2 777.09	2 787.85
260	2 798.62	2 809.38	2 820.14	2 830.91	2 841.67	2 852.44	2 863.2	2 873.96	2 884.73	2 895.49
270	2 906.26	2 917.02	2 927.78	2 938.55	2 949.31	2 960.08	2 970.84	2 981.6	2 992.37	3 003.13
280	3 013.89	3 024.66	3 035.42	3 046.19	3 056.95	3 067.71	3 078.48	3 089.24	3 100.01	3 110.77
290	3 121.53	3 132.3	3 143.06	3 153.83	3 164.59	3 175.35	3 186.12	3 196.88	3 207.65	3 218.41
300	3 229.17	3 239.94	3 250.7	3 261.46	3 272.23	3 282.99	3 293.76	3 304.52	3 315.28	3 326.05
310	3 336.81	3 347.58	3 358.34	3 369.1	3 379.87	3 390.63	3 401.4	3 412.16	3 422.92	3 433.69
320	3 444.45	3 455.22	3 465.98	3 476.74	3 487.51	3 498.27	3 509.03	3 519.8	3 530.56	3 541.33
330	3 552.09	3 562.85	3 573.62	3 584.38	3 595.15	3 605.91	3 616.67	3 627.44	3 638.2	3 648.97
340	3 659.73	3 670.49	3 681.26	3 692.02	3 702.79	3 713.55	3 724.31	3 735.08	3 745.84	3 756.6
350	3 767.37	3 778.13	3 788.9	3 799.66	3 810.42	3 821.19	3 831.95	3 842.72	3 853.48	3 864.24
360	3 875.01	3 885.77	3 896.54	3 907.3	3 918.06	3 928.83	3 939.59	3 950.36	3 961.12	3 971.88
370	3 982.65	3 993.41	4 004.17	4 014.94	4 025.7	4 036.47	4 047.23	4 057.99	4 068.76	4 079.52
380	4 090.29	4 101.05	4 111.81	4 122.58	4 133.34	4 144.11	4 154.87	4 165.63	4 176.4	4 187.16
390	4 197.93	4 208.69	4 219.45	4 230.22	4 240.98	4 251.74	4 262.51	4 273.27	4 284.04	4 294.8
400	4 305.56	4 316.33	4 327.09	4 337.86	4 348.62	4 359.38	4 370.15	4 380.91	4 391.68	4 402.44
410	4 413.2	4 423.97	4 434.73	4 445.49	4 456.26	4 467.02	4 477.79	4 488.55	4 499.31	4 510.08
420	4 520.84	4 531.61	4 542.37	4 553.13	4 563.9	4 574.66	4 585.43	4 596.19	4 606.95	4 617.72
430	4 628.48	4 639.25	4 650.01	4 660.77	4 671.54	4 682.3	4 693.06	4 703.83	4 714.59	4 725.36
440	4 736.12	4 746.88	4 757.65	4 768.41	4 779.18	4 789.94	4 800.7	4 811.47	4 822.23	4 833.0
450	4 843.76	4 854.52	4 865.29	4 876.05	4 886.82	4 897.58	4 908.34	4 919.11	4 929.87	4 940.63
460	4 951.4	4 962.16	4 972.93	4 983.69	4 994.45	5 005.22	5 015.98	5 026.75	5 037.51	5 048.27
470	5 059.04	5 069.8	5 080.57	5 091.33	5 102.09	5 112.86	5 123.62	5 134.39	5 145.15	5 155.91
480	5 166.68	5 177.44	5 188.2	5 198.97	5 209.73	5 220.5	5 231.26	5 242.02	5 252.79	5 263.55
490	5 274.32	5 285.08	5 295.84	5 306.61	5 317.37	5 328.14	5 338.9	5 349.66	5 360.43	5 371.19
500	5 381.96									

13
square metres to
square feet

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

12
square inches
to square
centimetres

inf	0	1	2	3	4	5	6	7	8	9
	cm ²									
0		6.45	12.9	19.36	25.81	32.26	38.71	45.16	51.61	58.06
10	64.52	70.97	77.41	83.87	90.32	96.77	103.23	109.68	116.13	122.58
20	129.03	135.48	141.94	148.39	154.84	161.29	167.74	174.19	180.65	187.1
30	193.55	200.0	206.45	212.9	219.35	225.8	232.26	238.71	245.16	251.61
40	258.06	264.52	270.97	277.42	283.87	290.32	296.77	303.23	309.68	316.13
50	322.58	329.03	335.48	341.94	348.4	354.84	361.29	367.74	374.19	380.64
60	387.1	393.55	400.0	406.45	412.91	419.35	425.81	432.26	438.71	445.16
70	451.61	458.06	464.52	470.97	477.42	483.87	490.32	496.77	503.23	509.68
80	516.13	522.58	529.03	535.48	541.93	548.39	554.84	561.29	567.74	574.19
90	580.64	587.1	593.55	600.0	606.45	612.91	619.35	625.81	632.26	638.71
100	645.16	651.61	658.06	664.51	670.97	677.42	683.87	690.32	696.77	703.22
110	709.6	716.13	722.58	729.03	735.48	741.93	748.39	754.84	761.29	767.74
120	774.19	780.64	787.1	793.55	800.0	806.45	812.9	819.35	825.81	832.26
130	838.71	845.16	851.61	858.06	864.51	870.97	877.42	883.87	890.32	896.77
140	903.22	909.68	916.13	922.58	929.03	935.48	941.93	948.39	954.84	961.29
150	967.74	974.19	980.64	987.1	993.55	1 000.0	1 006.45	1 012.9	1 019.35	1 025.8
160	1 032.26	1 038.71	1 045.16	1 051.61	1 058.06	1 064.51	1 070.97	1 077.42	1 083.87	1 090.32
170	1 096.77	1 103.22	1 109.68	1 116.13	1 122.58	1 129.03	1 135.48	1 141.93	1 148.38	1 154.84
180	1 161.29	1 167.74	1 174.19	1 180.64	1 187.09	1 193.55	1 200.0	1 206.45	1 212.9	1 219.35
190	1 225.8	1 232.26	1 238.71	1 245.16	1 251.61	1 258.06	1 264.51	1 270.97	1 277.42	1 283.87
200	1 290.32	1 296.77	1 303.22	1 309.67	1 316.13	1 322.58	1 329.03	1 335.48	1 341.93	1 348.38
210	1 354.84	1 361.29	1 367.74	1 374.19	1 380.64	1 387.09	1 393.55	1 400.0	1 406.45	1 412.9
220	1 419.35	1 425.8	1 432.26	1 438.71	1 445.16	1 451.61	1 458.06	1 464.51	1 470.96	1 477.42
230	1 483.87	1 490.32	1 496.77	1 503.22	1 509.67	1 516.13	1 522.58	1 529.03	1 535.48	1 541.93
240	1 548.38	1 554.84	1 561.29	1 567.74	1 574.19	1 580.64	1 587.09	1 593.55	1 600.0	1 606.45
250	1 612.9									

14
square feet to
square metres

ft ²	0	1	2	3	4	5	6	7	8	9
	m ²									
0		0.09	0.19	0.28	0.37	0.46	0.56	0.65	0.74	0.84
10	0.93	1.02	1.11	1.21	1.3	1.39	1.49	1.58	1.67	1.77
20	1.86	1.95	2.04	2.14	2.23	2.32	2.42	2.51	2.6	2.69
30	2.79	2.88	2.97	3.07	3.16	3.25	3.34	3.44	3.53	3.62
40	3.72	3.81	3.9	3.99	4.09	4.18	4.27	4.37	4.46	4.55
50	4.65	4.74	4.83	4.92	5.02	5.11	5.2	5.3	5.39	5.48
60	5.57	5.67	5.76	5.85	5.95	6.04	6.13	6.22	6.32	6.41
70	6.5	6.6	6.69	6.78	6.87	6.97	7.06	7.15	7.25	7.34
80	7.43	7.53	7.62	7.71	7.8	7.9	7.99	8.08	8.18	8.27
90	8.36	8.45	8.55	8.64	8.73	8.83	8.92	9.01	9.1	9.2
100	9.29	9.38	9.48	9.57	9.66	9.75	9.85	9.94	10.03	10.13
110	10.22	10.31	10.41	10.5	10.59	10.68	10.78	10.87	10.96	11.06
120	11.15	11.24	11.33	11.43	11.52	11.61	11.71	11.8	11.89	11.98
130	12.08	12.17	12.26	12.36	12.45	12.54	12.63	12.73	12.82	12.91
140	13.01	13.1	13.19	13.29	13.38	13.47	13.56	13.66	13.75	13.84
150	13.94	14.03	14.12	14.21	14.31	14.4	14.49	14.59	14.68	14.77
160	14.86	14.96	15.05	15.14	15.24	15.33	15.42	15.51	15.61	15.7
170	15.79	15.89	15.98	16.07	16.17	16.26	16.35	16.44	16.54	16.63
180	16.72	16.82	16.91	17.0	17.09	17.19	17.28	17.37	17.47	17.56
190	17.65	17.74	17.84	17.93	18.02	18.12	18.21	18.3	18.39	18.49
200	18.58	18.67	18.77	18.86	18.95	19.05	19.14	19.23	19.32	19.42
210	19.51	19.6	19.7	19.79	19.88	19.97	20.07	20.16	20.25	20.35
220	20.44	20.53	20.62	20.72	20.81	20.9	21.0	21.09	21.18	21.27
230	21.37	21.46	21.55	21.65	21.74	21.83	21.93	22.02	22.11	22.2
240	22.3	22.39	22.48	22.58	22.67	22.76	22.85	22.95	23.04	23.13
250	23.23	23.32	23.41	23.5	23.6	23.69	23.78	23.88	23.97	24.06
260	24.15	24.25	24.34	24.43	24.53	24.62	24.71	24.81	24.9	24.99
270	25.08	25.18	25.27	25.36	25.46	25.55	25.64	25.73	25.83	25.92
280	26.01	26.11	26.2	26.29	26.38	26.48	26.57	26.66	26.76	26.85
290	26.94	27.03	27.13	27.22	27.31	27.41	27.5	27.59	27.69	27.78
300	27.87	27.96	28.06	28.15	28.24	28.34	28.43	28.52	28.61	28.71
310	28.8	28.89	28.99	29.08	29.17	29.26	29.36	29.45	29.54	29.64
320	29.73	29.82	29.91	30.01	30.1	30.19	30.29	30.38	30.47	30.57
330	30.66	30.75	30.84	30.94	31.03	31.12	31.22	31.31	31.4	31.49
340	31.59	31.68	31.77	31.87	31.96	32.05	32.14	32.24	32.33	32.42
350	32.52	32.61	32.7	32.79	32.89	32.98	33.07	33.17	33.26	33.35
360	33.45	33.54	33.63	33.72	33.82	33.91	34.0	34.1	34.19	34.28
370	34.37	34.47	34.56	34.65	34.75	34.84	34.93	35.02	35.12	35.21
380	35.3	35.4	35.49	35.58	35.67	35.77	35.86	35.95	36.05	36.14
390	36.23	36.33	36.42	36.51	36.6	36.7	36.79	36.88	36.98	37.07
400	37.16	37.25	37.35	37.44	37.53	37.63	37.72	37.81	37.9	38.0
410	38.09	38.18	38.28	38.37	38.46	38.55	38.65	38.74	38.83	38.93
420	39.02	39.11	39.21	39.3	39.39	39.48	39.58	39.67	39.76	39.86
430	39.95	40.04	40.13	40.23	40.32	40.41	40.51	40.6	40.69	40.78
440	40.88	40.97	41.06	41.16	41.25	41.34	41.43	41.53	41.62	41.71
450	41.81	41.9	41.99	42.09	42.18	42.27	42.36	42.46	42.55	42.64
460	42.74	42.83	42.92	43.01	43.11	43.2	43.29	43.39	43.48	43.57
470	43.66	43.76	43.85	43.94	44.04	44.13	44.22	44.31	44.41	44.5
480	44.59	44.69	44.78	44.87	44.97	45.06	45.15	45.24	45.34	45.43
490	45.52	45.62	45.71	45.8	45.89	45.99	46.08	46.17	46.27	46.36
500	46.45									

Conversion
of units

Conversion Tables

15
square metres to
square yards

17
hectares to
acres

565

Conversion Tables

18 acres to hectares	acre	0	1	2	3	4	5	6	7	8	9
	ha										
			0.4	0.81	1.21	1.62	2.02	2.42	2.83	3.23	3.64
	acre	0	10	20	30	40	50	60	70	80	90
	ha										
	0		4.05	8.09	12.14	16.19	20.23	24.28	28.33	32.37	36.42
	100	40.47	44.52	48.56	52.6	56.66	60.71	64.75	68.8	72.84	76.89
	200	80.94	84.98	89.03	93.08	97.12	101.17	105.22	109.26	113.31	117.36
	300	121.41	125.46	129.5	133.55	137.59	141.64	145.69	149.73	153.78	157.83
	400	161.87	165.92	169.97	174.02	178.06	182.11	186.16	190.20	194.25	198.3
Conversion of units	500	202.34	206.39	210.44	214.48	218.53	222.58	226.62	230.67	234.71	238.77
	600	242.81	246.86	250.91	254.95	259.0	263.05	267.09	271.14	275.19	279.23
	700	283.28	287.33	291.37	295.42	299.47	303.51	307.56	311.61	315.66	319.7
	800	323.75	327.8	331.84	335.84	339.94	343.98	348.03	352.07	356.12	360.17
	900	364.22	368.26	372.31	376.36	380.41	384.45	388.5	392.55	396.59	400.64
	1 000	404.69									

CONVERSION OF UNITS

Conversion Tables

cm ³	0	1	2	3	4	5	6	7	8	9
in ³										
		0.06	0.12	0.18	0.24	0.31	0.37	0.43	0.49	0.55
cm ³	0	10	20	30	40	50	60	70	80	90
in ³										
0		0.61	1.22	1.83	2.44	3.05	3.66	4.27	4.88	5.49
100	6.1	6.71	7.32	7.93	8.54	9.15	9.76	10.37	10.98	11.59
200	12.2	12.82	13.43	14.04	14.65	15.26	15.87	16.48	17.09	17.7
300	18.31	18.92	19.53	20.14	20.75	21.36	21.97	22.58	23.19	23.8
400	24.41	25.02	25.63	26.24	26.85	27.46	28.07	28.68	29.29	29.9
500	30.51	31.12	31.73	32.34	32.95	33.56	34.17	34.78	35.39	36.0
600	36.61	37.22	37.83	38.45	39.06	39.67	40.28	40.89	41.5	42.11
700	42.72	43.38	43.94	44.55	45.16	45.77	46.38	46.99	47.6	48.21
800	48.82	49.43	50.04	50.65	51.26	51.87	52.48	53.09	53.7	54.31
900	54.92	55.53	56.14	56.75	57.36	57.97	58.58	59.19	59.8	60.41
1 000	61.02									

Volume
19
cubic
centimetres to
cubic inches

m ³	0	1	2	3	4	5	6	7	8	9
ft ³										
0		35.31	70.63	105.94	141.26	176.57	211.89	247.2	282.52	317.83
10	353.15	388.46	423.78	459.09	494.41	529.72	565.04	600.35	635.67	670.98
20	706.29	741.61	776.92	812.24	847.55	882.87	918.18	953.5	988.81	1 024.13
30	1 059.44	1 094.75	1 130.07	1 165.38	1 200.7	1 236.01	1 271.33	1 306.64	1 341.96	1 377.27
40	1 412.59	1 447.9	1 483.22	1 518.53	1 553.85	1 589.16	1 624.47	1 659.79	1 695.1	1 730.42
50	1 765.73	1 801.05	1 836.36	1 871.68	1 906.99	1 942.31	1 977.62	2 012.94	2 048.25	2 083.57
60	2 118.88	2 154.19	2 189.51	2 224.82	2 260.14	2 295.45	2 330.77	2 366.08	2 401.4	2 436.71
70	2 472.03	2 507.34	2 542.66	2 577.97	2 613.29	2 648.6	2 683.91	2 719.23	2 754.54	2 789.86
80	2 825.17	2 860.49	2 895.8	2 931.12	2 966.43	3 001.75	3 037.06	3 072.38	3 107.69	3 143.01
90	3 178.32	3 213.63	3 248.95	3 284.26	3 319.58	3 354.89	3 390.21	3 425.52	3 460.84	3 496.15
100	3 531.47	3 566.78	3 602.1	3 637.41	3 672.73	3 708.04	3 743.35	3 778.67	3 813.98	3 849.3
110	3 884.61	3 919.93	3 955.24	3 990.56	4 025.87	4 061.19	4 096.5	4 131.82	4 167.13	4 202.45
120	4 237.76	4 273.07	4 308.39	4 343.7	4 379.02	4 414.33	4 449.65	4 484.96	4 520.28	4 555.59
130	4 590.91	4 626.22	4 661.54	4 696.85	4 732.17	4 767.48	4 802.79	4 838.11	4 873.42	4 908.74
140	4 944.05	4 979.37	5 014.68	5 050.0	5 085.31	5 120.63	5 155.94	5 191.26	5 226.57	5 261.89
150	5 297.2	5 332.51	5 367.83	5 403.14	5 438.46	5 473.77	5 509.09	5 544.4	5 579.72	5 615.03
160	5 650.35	5 685.66	5 720.98	5 756.29	5 791.61	5 826.92	5 862.23	5 897.55	5 932.86	5 968.18
170	6 003.49	6 038.81	6 074.12	6 109.44	6 144.75	6 180.07	6 215.38	6 250.7	6 286.01	6 321.33
180	6 356.64	6 391.95	6 427.27	6 462.58	6 497.9	6 533.21	6 568.53	6 603.84	6 639.16	6 674.47
190	6 709.79	6 745.1	6 780.42	6 815.73	6 851.05	6 886.36	6 921.67	6 956.99	6 992.3	7 027.62
200	7 062.93	7 098.25	7 133.56	7 168.88	7 204.19	7 239.51	7 274.82	7 310.14	7 345.45	7 380.77
210	7 416.08	7 451.39	7 486.71	7 522.02	7 557.34	7 592.65	7 627.97	7 663.28	7 698.6	7 733.91
220	7 769.23	7 804.54	7 839.86	7 875.17	7 910.49	7 945.8	7 981.11	8 016.43	8 051.74	8 087.06
230	8 122.37	8 157.69	8 193.0	8 228.32	8 263.63	8 298.95	8 334.26	8 369.58	8 404.89	8 440.21
240	8 475.52	8 510.83	8 546.15	8 581.46	8 616.78	8 652.09	8 687.41	8 722.72	8 758.04	8 793.35
250	8 828.67									

21
cubic metres
to cubic feet

litre	0	1	2	3	4	5	6	7	8	9
ft ³										
0		0.04	0.07	0.11	0.14	0.18	0.21	0.25	0.28	0.32
10	0.35	0.39	0.42	0.46	0.49	0.53	0.57	0.60	0.64	0.67
20	0.71	0.74	0.78	0.81	0.85	0.88	0.92	0.95	0.99	1.02
30	1.06	1.09	1.13	1.17	1.2	1.24	1.27	1.31	1.34	1.38
40	1.41	1.45	1.48	1.52	1.55	1.59	1.62	1.66	1.7	1.73
50	1.77	1.8	1.84	1.87	1.91	1.94	1.98	2.01	2.05	2.08
60	2.12	2.15	2.19	2.22	2.26	2.3	2.33	2.37	2.4	2.44
70	2.47	2.51	2.54	2.58	2.61	2.65	2.68	2.72	2.75	2.79
80	2.83	2.86	2.9	2.93	2.97	3.0	3.04	3.07	3.11	3.14
90	3.18	3.21	3.25	3.28	3.32	3.35	3.39	3.42	3.46	3.5
100	3.53									

23
litres to
cubic feet

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

20
cubic inches
to cubic
centimetres

in ³	0	1	2	3	4	5	6	7	8	9
cm ³										
		16.39	32.77	49.16	65.55	81.94	98.32	114.71	131.1	147.48
in ³	0	10	20	30	40	50	60	70	80	90
cm ³										
0		163.87	327.74	491.61	655.48	819.35	983.22	1 147.09	1 310.97	1 474.84
100	1 638.71	1 802.58	1 966.45	2 130.32	2 294.19	2 458.06	2 621.93	2 785.8	2 949.67	3 113.54
200	3 277.41	3 441.28	3 605.15	3 769.02	3 932.9	4 096.77	4 260.64	4 424.51	4 588.38	4 752.25
300	4 916.12	5 079.99	5 243.86	5 407.73	5 571.6	5 735.47	5 899.34	6 063.21	6 227.08	6 390.95
400	6 554.83	6 718.7	6 882.57	7 046.44	7 210.31	7 374.18	7 538.05	7 701.92	7 865.79	8 029.66
500	8 193.53	8 357.4	8 521.27	8 685.14	8 849.01	9 012.89	9 176.76	9 340.63	9 504.5	9 668.37
600	9 832.24	9 996.11	10 160.0	10 323.9	10 487.7	10 651.6	10 815.5	10 979.3	11 143.2	11 307.1
700	11 470.9	11 634.8	11 798.7	11 962.6	12 126.4	12 290.3	12 454.2	12 618.0	12 781.9	12 945.8
800	13 109.7	13 273.5	13 437.4	13 601.3	13 765.1	13 929.0	14 092.9	14 256.7	14 420.6	14 584.5
900	14 748.4	14 912.2	15 076.1	15 240.0	15 403.8	15 567.7	15 731.6	15 895.5	16 059.3	16 223.2
1 000	16 387.1									

22
cubic feet to
cubic metres

ft ³	0	1	2	3	4	5	6	7	8	9
m ³										
0		0.03	0.06	0.08	0.11	0.14	0.17	0.2	0.23	0.25
10	0.28	0.31	0.34	0.37	0.4	0.42	0.45	0.48	0.51	0.54
20	0.57	0.59	0.62	0.65	0.68	0.71	0.74	0.77	0.79	0.82
30	0.85	0.88	0.91	0.93	0.96	0.99	1.02	1.05	1.08	1.1
40	1.13	1.16	1.19	1.22	1.25	1.27	1.3	1.33	1.36	1.39
50	1.42	1.44	1.47	1.5	1.53	1.56	1.59	1.61	1.64	1.67
60	1.7	1.73	1.76	1.78	1.81	1.84	1.87	1.9	1.93	1.95
70	1.98	2.01	2.04	2.07	2.1	2.12	2.15	2.18	2.21	2.24
80	2.27	2.29	2.32	2.35	2.38	2.41	2.44	2.46	2.49	2.52
90	2.55	2.58	2.61	2.63	2.66	2.69	2.71	2.75	2.78	2.8
100	2.83	2.86	2.89	2.92	2.94	2.97	3.01	3.03	3.06	3.09
110	3.11	3.14	3.17	3.2	3.23	3.26	3.28	3.31	3.34	3.37
120	3.4	3.43	3.46	3.48	3.51	3.54	3.57	3.6	3.62	3.65
130	3.68	3.71	3.74	3.77	3.79	3.82	3.85	3.88	3.91	3.94
140	3.96	4.0	4.02	4.05	4.08	4.11	4.13	4.16	4.19	4.22
150	4.26	4.28	4.3	4.33	4.36	4.39	4.42	4.45	4.47	4.51
160	4.53	4.56	4.59	4.62	4.64	4.67	4.7	4.73	4.76	4.79
170	4.81	4.84	4.87	4.9	4.93	4.96	4.99	5.01	5.04	5.07
180	5.1	5.13	5.15	5.18	5.21	5.24	5.27	5.3	5.32	5.35
190	5.38	5.41	5.44	5.47	5.49	5.52	5.55	5.58	5.61	5.64
200	5.66	5.69	5.72	5.75	5.78	5.8	5.83	5.86	5.89	5.92
210	5.95	5.98	6.0	6.03	6.06	6.09	6.12	6.14	6.17	6.2
220	6.23	6.26	6.29	6.31	6.34	6.37	6.4	6.43	6.46	6.48
230	6.51	6.54	6.57	6.6	6.63	6.65	6.69	6.71	6.74	6.77
240	6.8	6.82	6.85	6.88	6.91	6.94	6.97	6.99	7.02	7.05
250	7.08									

24
cubic feet
to litres

ft ³	0	1	2	3	4	5	6	7	8	9
litre										
0		28.32	56.63	84.95	113.26	141.58	169.9	198.21	226.53	254.84
10	283.16	311.48	339.79	368.11	396.42	424.74	453.06	481.37	509.69	538.01
20	566.32	594.64	622.95	651.27	679.59	707.9	736.22	764.53	792.85	821.17
30	849.48	877.8	906.11	934.43	962.75	991.06	1 019.38	1 047.69	1 076.01	1 104.33
40	1 132.64	1 160.96	1 189.27	1 217.59	1 245.91	1 274.22	1 302.54	1 330.85	1 359.17	1 387.49
50	1 415.8	1 444.12	1 472.43	1 500.75	1 529.07	1 557.38	1 585.7	1 614.02	1 642.33	1 670.65
60	1 698.96	1 727.28	1 755.6	1 783.91	1 812.23	1 840.54	1 868.86	1 897.18	1 925.49	1 953.81
70	1 982.12	2 010.44	2 038.76	2 067.07	2 095.39	2 123.7	2 152.02	2 180.34	2 208.65	2 236.97
80	2 265.28	2 293.6	2 321.92	2 350.23	2 378.55	2 406.86	2 435.18	2 463.5	2 491.81	2 520.13
90	2 548.44	2 576.76	2 605.08	2 633.39	2 661.71	2 690.03	2 718.34	2 746.66	2 774.97	2 803.29
100	2 831.61									

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

litre	0	1	2	3	4	5	6	7	8	9
gal imp										
0		0.22	0.44	0.66	0.88	1.1	1.32	1.54	1.76	1.98
10	2.2	2.42	2.64	2.86	3.08	3.3	3.52	3.74	3.96	4.18
20	4.4	4.62	4.84	5.06	5.28	5.5	5.72	5.94	6.16	6.38
30	6.6	6.82	7.04	7.26	7.48	7.7	7.92	8.14	8.36	8.58
40	8.8	9.02	9.24	9.46	9.68	9.9	10.12	10.34	10.56	10.78
50	11.0	11.22	11.44	11.66	11.88	12.1	12.32	12.54	12.76	12.98
60	13.2	13.42	13.64	13.86	14.08	14.3	14.52	14.74	14.96	15.18
70	15.4	15.62	15.84	16.06	16.28	16.5	16.72	16.94	17.16	17.38
80	17.6	17.82	18.04	18.26	18.48	18.7	18.92	19.14	19.36	19.58
90	19.8	20.02	20.24	20.46	20.68	20.9	21.12	21.34	21.56	21.78
100	22.0									

25
litres to
imperial
gallons

litre	0	1	2	3	4	5	6	7	8	9
gal US										
10	2.64	0.26	0.53	0.79	1.06	1.32	1.59	1.85	2.11	2.38
20	5.28	2.91	3.17	3.43	3.7	3.96	4.23	4.49	4.76	5.02
30	7.93	5.55	5.81	6.08	6.34	6.61	6.87	7.13	7.4	7.66
40	10.57	8.19	8.45	8.72	8.98	9.25	9.51	9.78	10.04	10.3
50	13.21	10.83	11.1	11.36	11.62	11.89	12.15	12.42	12.68	12.95
60	15.85	13.47	13.74	14.0	14.27	14.53	14.8	15.06	15.32	15.59
70	18.49	16.12	16.38	16.64	16.91	17.17	17.44	17.7	17.97	18.23
80	21.14	18.76	19.02	19.29	19.55	19.82	20.08	20.34	20.61	20.87
90	23.78	21.4	21.66	21.93	22.19	22.46	22.72	22.96	23.25	23.51
100	26.42	24.04	24.31	24.57	24.83	25.1	25.36	25.63	25.89	26.16

27
litres to US
gallons

kg	0	1	2	3	4	5	6	7	8	9
lb										
0		2.21	4.41	6.61	8.82	11.02	13.23	15.43	17.64	19.84
10	22.05	24.25	26.46	28.66	30.86	33.07	35.27	37.47	39.68	41.89
20	44.09	46.3	48.5	50.71	52.91	55.12	57.32	59.52	61.73	63.93
30	66.14	68.34	70.55	72.75	74.96	77.16	79.37	81.57	83.78	85.98
40	88.18	90.39	92.59	94.8	97.0	99.2	101.41	103.61	105.82	108.03
50	110.23	112.44	114.64	116.85	119.05	121.25	123.46	125.66	127.87	130.07
60	132.28	134.48	136.69	138.89	141.1	143.3	145.51	147.71	149.91	152.12
70	154.32	156.53	158.73	160.94	163.14	165.35	167.55	169.76	171.96	174.17
80	176.37	178.57	180.78	182.98	185.19	187.39	189.6	191.8	194.01	196.21
90	198.42	200.62	202.83	205.03	207.24	209.44	211.64	213.85	216.05	218.26
100	220.46	222.67	224.87	227.08	229.28	231.49	233.69	235.9	238.1	240.3
110	242.51	244.71	246.92	249.12	251.33	253.53	255.74	257.94	260.15	262.35
120	264.56	266.76	268.96	271.17	273.37	275.58	277.78	279.99	282.19	284.4
130	286.6	288.81	291.01	293.22	295.42	297.62	299.83	302.03	304.24	306.44
140	308.65	310.85	313.06	315.26	317.47	319.67	321.88	324.08	326.28	328.49
150	330.69	332.9	335.1	337.31	339.51	341.72	343.92	346.13	348.33	350.54
160	352.74	354.94	357.15	359.35	361.56	363.76	365.97	368.17	370.38	372.58
170	374.79	377.0	379.2	381.4	383.6	385.81	388.01	390.22	392.42	394.63
180	396.83	399.04	401.24	403.45	405.65	407.86	410.06	412.26	414.47	416.67
190	418.88	421.08	423.29	425.49	427.68	429.9	432.11	434.31	436.52	438.72
200	440.93	443.13	445.33	447.54	449.74	451.95	454.15	456.36	458.56	460.77
210	462.97	465.18	467.38	469.59	471.79	473.99	476.2	478.4	480.61	482.81
220	485.02	487.22	489.43	491.63	493.84	496.04	498.25	500.45	502.65	504.86
230	507.06	509.27	511.47	513.68	515.88	518.09	520.29	522.49	524.7	526.9
240	529.1	531.31	533.5	535.72	537.9	540.13	542.3	544.54	546.7	548.9
250	551.16	553.36	555.57	557.77	559.97	562.18	564.38	566.59	568.79	571.0
260	573.2	575.41	577.61	579.82	582.02	584.23	586.43	588.63	590.84	593.04
270	595.25	597.45	599.66	601.86	604.07	606.27	608.48	610.68	612.89	615.09
280	617.29	619.5	621.7	623.91	626.11	628.32	630.52	632.73	634.93	637.14
290	639.34	641.55	643.75	645.95	648.16	650.36	652.57	654.77	656.98	659.18
300	661.39	663.59	665.8	668.0	670.21	672.41	674.62	676.82	679.02	681.23
310	683.43	685.64	687.84	690.05	692.25	694.46	696.66	698.87	701.07	703.28
320	705.48	707.68	709.89	712.09	714.3	716.5	718.71	720.91	723.12	725.32
330	727.53	729.73	731.93	734.14	736.34	738.55	740.75	742.96	745.16	747.37
340	749.57	751.78	753.98	756.19	758.39	760.6	762.8	765.0	767.21	769.41
350	771.62	773.82	776.03	778.23	780.44	782.64	784.85	787.05	789.26	791.46
360	793.66	795.87	798.07	800.28	802.48	804.69	806.89	809.1	811.31	813.51
370	815.71	817.92	820.12	822.32	824.53	826.73	828.94	831.14	833.35	835.55
380	837.76	839.96	842.17	844.37	846.58	848.78	850.98	853.19	855.39	857.6
390	859.8	862.0	864.21	866.41	868.62	870.8	873.03	875.2	877.44	879.64
400	881.85	884.05	886.26	888.46	890.67	892.87	895.08	897.28	899.49	901.69
410	903.9	906.1	908.31	910.51	912.71	914.92	917.12	919.33	921.53	923.74
420	925.94	928.15	930.35	932.56	934.76	936.97	939.17	941.37	943.58	945.78
430	947.99	950.19	952.4	954.6	956.81	959.01	961.22	963.42	965.63	967.83
440	970.03	972.24	974.44	976.65	978.85	981.06	983.26	985.47	987.67	989.88
450	992.08	994.29	996.49	998.69	1000.9	1003.1	1005.31	1007.51	1009.72	1011.92
460	1014.13	1016.33	1018.54	1020.74	1022.94	1025.15	1027.35	1029.56	1031.76	1033.97
470	1036.17	1038.38	1040.58	1042.79	1044.99	1047.2	1049.4	1051.6	1053.81	1056.01
480	1058.22	1060.42	1062.63	1064.83	1067.04	1069.24	1071.45	1073.65	1075.86	1078.06
490	1080.27	1082.47	1084.67	1086.88	1089.08	1091.29	1093.49	1095.7	1097.9	1100.11
500	1102.31									

Mass
29
kilograms
to pounds

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

26 imperial gallons to litres	gal imp	0	1	2	3	4	5	6	7	8	9
		litre									
	0		4.55	9.09	13.64	18.18	22.73	27.28	31.82	36.37	40.91
	10	45.46	50.0	54.55	59.1	63.64	68.19	72.74	77.28	81.83	86.38
	20	90.92	95.47	100.01	104.56	109.1	113.65	118.2	122.74	127.29	131.83
	30	136.38	140.93	145.47	150.02	154.56	159.1	163.66	168.21	172.75	177.3
	40	181.84	186.38	190.93	195.48	200.02	204.57	209.11	213.66	218.21	222.75
	50	227.3	231.84	236.39	240.94	245.48	250.03	254.57	259.12	263.67	268.21
	60	272.76	277.3	281.85	286.4	290.94	295.49	300.03	304.58	309.13	313.67
	70	318.22	322.76	327.31	331.86	336.4	340.95	345.49	350.04	354.59	359.13
	80	363.68	368.22	372.77	377.32	381.86	386.41	390.95	395.5	400.04	404.59
	90	409.14	413.68	418.23	422.77	427.32	431.87	436.41	440.96	445.5	450.05
	100	454.6									
28 US gallons to litres	gal US	0	1	2	3	4	5	6	7	8	9
		litre									
	0		3.79	7.57	11.36	15.14	18.93	22.71	26.5	30.28	34.07
	10	37.85	41.64	45.42	49.21	52.99	56.78	60.56	64.35	68.13	71.92
	20	75.7	79.49	83.27	87.06	90.84	94.63	98.41	102.2	105.98	109.77
	30	113.55	117.34	121.12	124.91	128.69	132.48	136.26	140.05	143.83	147.62
	40	151.40	155.19	158.97	162.76	166.54	170.33	174.11	177.9	181.68	185.47
	50	189.25	193.04	196.82	200.61	204.39	208.18	211.96	215.75	219.53	223.32
	60	227.1	230.89	234.67	238.46	242.24	246.03	249.81	253.6	257.38	261.17
	70	264.95	268.74	272.52	276.31	280.09	283.88	287.66	291.45	295.23	299.02
	80	302.81	306.59	310.37	314.16	317.94	321.73	325.51	329.3	333.08	336.87
	90	340.65	344.44	348.22	352.01	355.79	359.58	363.36	367.14	370.93	374.72
	100	378.51									
30 pounds to kilograms	lb	0	1	2	3	4	5	6	7	8	9
		kg									
	0		0.45	0.91	1.36	1.81	2.27	2.72	3.18	3.63	4.08
	10	4.54	4.99	5.44	5.9	6.35	6.8	7.26	7.71	8.16	8.62
	20	9.07	9.53	9.98	10.43	10.89	11.34	11.79	12.25	12.7	13.15
	30	13.61	14.06	14.52	14.97	15.42	15.88	16.33	16.78	17.24	17.69
	40	18.14	18.6	19.05	19.5	19.96	20.41	20.87	21.32	21.77	22.23
	50	22.68	23.13	23.59	24.04	24.49	24.95	25.4	25.85	26.31	26.76
	60	27.22	27.67	28.12	28.58	29.03	29.48	29.94	30.39	30.84	31.3
	70	31.75	32.21	32.66	33.11	33.57	34.02	34.47	34.93	35.38	35.83
	80	36.29	36.74	37.19	37.65	38.1	38.56	39.01	39.46	39.92	40.37
	90	40.82	41.28	41.73	42.18	42.64	43.09	43.54	44.0	44.45	44.91
	100	45.36	45.81	46.27	46.72	47.17	47.63	48.08	48.53	48.99	49.44
	110	49.9	50.35	50.8	51.26	51.71	52.16	52.62	53.07	53.52	53.98
	120	54.43	54.88	55.34	55.79	56.25	56.7	57.15	57.61	58.06	58.51
	130	58.97	59.42	59.87	60.33	60.78	61.24	61.69	62.14	62.6	63.05
	140	63.5	63.96	64.41	64.86	65.32	65.77	66.22	66.68	67.13	67.59
	150	68.04	68.49	68.95	69.4	69.85	70.31	70.76	71.21	71.67	72.12
	160	72.57	73.03	73.48	73.94	74.39	74.84	75.3	75.75	76.2	76.66
	170	77.11	77.56	78.02	78.47	78.93	79.38	79.83	80.29	80.74	81.19
	180	81.65	82.1	82.55	83.01	83.46	83.91	84.37	84.82	85.28	85.73
	190	86.18	86.64	87.09	87.54	88.0	88.45	88.9	89.36	89.81	90.26
	200	90.72	91.17	91.63	92.08	92.53	92.99	93.44	93.89	94.35	94.8
	210	95.25	95.71	96.16	96.62	97.07	97.52	97.98	98.43	98.88	99.34
	220	99.79	100.24	100.7	101.15	101.61	102.06	102.51	102.97	103.42	103.87
	230	104.33	104.78	105.23	105.69	106.14	106.59	107.05	107.5	107.96	108.41
	240	108.86	109.32	109.77	110.22	110.68	111.13	111.58	112.04	112.49	112.95
	250	113.4	113.85	114.31	114.76	115.21	115.67	116.12	116.57	117.03	117.48
	260	117.93	118.39	118.84	119.3	119.75	120.2	120.66	121.11	121.56	122.02
	270	122.47	122.92	123.38	123.83	124.28	124.74	125.19	125.65	126.1	126.55
	280	127.01	127.46	127.91	128.37	128.82	129.27	129.73	130.18	130.64	131.09
	290	131.54	132.0	132.45	132.9	133.36	133.81	134.26	134.72	135.17	135.62
	300	136.08	136.53	136.99	137.44	137.89	138.35	138.8	139.25	139.71	140.16
	310	140.61	141.07	141.52	141.97	142.43	142.88	143.34	143.79	144.24	144.7
	320	145.15	145.6	146.06	146.51	146.96	147.42	147.87	148.33	148.78	149.23
	330	149.69	150.14	150.59	151.05	151.5	151.95	152.41	152.86	153.31	153.77
	340	154.22	154.68	155.13	155.58	156.04	156.49	156.94	157.4	157.85	158.3
	350	158.76	159.21	159.67	160.12	160.57	161.03	161.48	161.93	162.39	162.84
	360	163.29	163.75	164.2	164.65	165.11	165.56	166.02	166.47	166.92	167.38
	370	167.83	168.28	168.74	169.1	169.64	170.1	170.55	171.0	171.46	171.91
	380	172.37	172.82	173.27	173.73	174.18	174.63	175.09	175.54	175.99	176.45
	390	176.9	177.36	177.81	178.26	178.72	179.17	179.62	180.08	180.53	180.98
	400	181.44	181.89	182.34	182.8	183.25	183.71	184.16	184.61	185.07	185.52
	410	185.97	186.43	186.88	187.33	187.79	188.24	188.69	189.15	189.6	190.06
	420	190.51	190.96	191.42	191.87	192.32	192.78	193.23	193.68	194.14	194.59
	430	195.05	195.5	195.95	196.41	196.86	197.31	197.77	198.22	198.67	199.13
	440	199.58	200.03	200.49	200.94	201.4	201.85	202.3	202.76	203.21	203.66
	450	204.12	204.57	205.02	205.48	205.93	206.39	206.84	207.29	207.75	208.2
	460	208.65	209.11	209.56	210.01	210.47	210.92	211.37	211.83	212.28	212.74
	470	213.19	213.64	214.1	214.55	215.0	215.46	215.91	216.36	216.82	217.27
	480	217.72	218.18	218.63	219.09	219.54	219.99	220.45	220.9	221.35	221.81
	490	222.26	222.71	223.17	223.62	224.08	224.53	224.98	225.44	225.89	226.34
	500	226.8									

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

kg/m ³	0	10	20	30	40	50	60	70	80	90
	lb/ft ³									
0		0.62	1.25	1.87	2.5	3.12	3.75	4.37	5.0	5.62
100	6.24	6.87	7.49	8.12	8.74	9.36	9.99	10.61	11.24	11.86
200	12.49	13.11	13.73	14.36	14.98	15.61	16.23	16.86	17.48	18.11
300	18.73	19.35	19.98	20.61	21.23	21.85	22.47	23.1	23.72	24.35
400	24.97	25.6	26.22	26.84	27.47	28.09	28.72	29.34	29.97	30.59
500	31.21	31.84	32.46	33.09	33.71	34.33	34.96	35.58	36.21	36.83
600	37.46	38.08	38.71	39.33	39.95	40.58	41.2	41.83	42.45	43.08
700	43.7	44.32	44.95	45.57	46.2	46.82	47.45	48.07	48.7	49.32
800	49.94	50.57	51.19	51.82	52.44	53.06	53.69	54.31	54.94	55.56
900	56.19	56.81	57.43	58.06	58.68	59.31	59.93	60.56	61.18	61.81
1000	62.43									

Density (mass/
volume)
31
kilograms per
cubic metre
to pounds per
cubic foot

m/s	0	1	2	3	4	5	6	7	8	9
	mile/hr									
0		2.24	4.47	6.71	8.95	11.18	13.42	15.66	17.9	20.13
10	22.37	24.61	26.84	29.08	31.32	33.55	35.79	38.03	40.26	42.51
20	44.74	46.96	49.21	51.45	53.69	55.92	58.16	60.4	62.63	64.87
30	67.11	69.35	71.58	73.82	76.06	78.29	80.53	82.77	85.0	87.24
40	89.48	91.71	93.95	96.19	98.43	100.66	102.9	105.13	107.37	109.61
50	111.85	114.08	116.32	118.56	120.8	123.03	125.27	127.5	129.74	131.98
60	134.22	136.45	138.69	140.93	143.16	145.4	147.64	149.88	152.11	154.34
70	156.59	158.82	161.06	163.3	165.53	167.77	170.0	172.24	174.48	176.72
80	178.96	181.19	183.43	185.67	187.9	190.14	192.38	194.61	196.85	199.09
90	201.32	203.56	205.8	208.04	210.27	212.51	214.75	216.98	219.22	221.46
100	223.69									

Velocity
33
metres per
second to
miles per hour

kgf/cm ²	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	lb/in ²									
0		1.42	2.84	4.27	5.6	7.11	8.53	9.96	11.38	12.8
1	14.22	15.65	17.07	18.49	19.91	21.34	22.76	24.18	25.6	27.02
2	28.45	29.87	31.29	32.71	34.13	35.56	36.98	38.4	39.83	41.25
3	42.67	44.09	45.51	46.94	48.36	49.78	51.2	52.63	54.05	55.47
4	56.9	58.32	59.73	61.16	62.58	64.0	65.43	66.85	68.27	69.69
5	71.12	72.54	73.96	75.38	76.81	78.23	79.65	81.07	82.5	83.92
6	85.34	86.76	88.18	89.61	91.03	92.45	93.87	95.3	96.72	98.14
7	99.56	100.99	102.41	103.83	105.25	106.68	108.1	109.52	110.94	112.36
8	113.79	115.21	116.63	118.05	119.48	120.9	122.32	123.74	125.17	126.59
9	128.01	129.43	130.86	132.28	133.7	135.12	136.54	137.97	139.39	140.81
10	142.23									

Pressure,
stress
35
kilograms
force per
square
centimetre to
pounds force
per square
inch

kN/m ² (kPa)	0	10	20	30	40	50	60	70	80	90
	lb/in ²									
0		1.45	2.9	4.35	5.8	7.25	8.7	10.15	11.6	13.05
100	14.50	15.95	17.40	18.85	20.30	21.75	23.21	24.66	26.11	27.56
200	29.01	30.46	31.91	33.36	34.81	36.26	37.71	39.16	40.61	42.06
300	43.51	44.96	46.41	47.86	49.31	50.76	52.21	53.66	55.11	56.56
400	58.01	59.46	60.91	62.36	63.81	65.26	66.71	68.17	69.62	71.07
500	72.52	73.97	75.42	76.87	78.32	79.77	81.22	82.67	84.12	85.57
600	87.02	88.47	89.92	91.37	92.82	94.27	95.72	97.17	98.62	100.07
700	101.52	102.97	104.42	105.87	107.32	108.77	110.22	111.68	113.13	114.58
800	116.03	117.48	118.93	120.38	121.83	123.28	124.73	126.18	127.63	129.08
900	130.53	131.98	133.43	134.88	136.33	137.78	139.23	140.68	142.13	143.58
1 000	145.03									

37
kilonewtons per
square metre
to pounds force
per square inch

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

32
pounds per cubic
foot to kilograms
per cubic metre

lb/ft ³	0	1	2	3	4	5	6	7	8	9
kg/m ³										
0		16.02	32.04	48.06	64.07	80.09	96.11	112.13	128.15	144.17
10	160.19	176.2	192.22	208.24	224.26	240.28	256.3	272.31	288.33	304.35
20	320.37	336.39	352.41	368.43	384.44	400.46	416.48	432.5	448.52	464.54
30	480.55	496.57	512.59	528.61	544.63	560.65	576.67	592.68	608.7	624.72
40	640.74	656.76	672.78	688.79	704.81	720.83	736.85	752.87	768.89	784.91
50	800.92	816.94	832.96	848.98	865.0	881.02	897.03	913.05	929.07	945.09
60	961.11	977.13	993.15	1 009.16	1 025.18	1 041.2	1 057.22	1 073.24	1 089.26	1 105.27
70	1 121.29	1 137.31	1 153.33	1 169.35	1 185.37	1 201.38	1 217.4	1 233.42	1 249.44	1 265.46
80	1 281.48	1 297.5	1 313.51	1 329.53	1 345.55	1 361.57	1 377.59	1 393.61	1 409.62	1 425.64
90	1 441.66	1 457.68	1 473.7	1 489.72	1 505.74	1 521.75	1 537.77	1 553.79	1 569.81	1 585.83
100	1 601.85									

34
miles per hour
to metres per
second

mile/hr	0	1	2	3	4	5	6	7	8	9
m/s										
0		0.45	0.89	1.34	1.79	2.24	2.68	3.13	3.58	4.02
10	4.47	4.92	5.36	5.81	6.26	6.71	7.15	7.6	8.05	8.49
20	8.94	9.39	9.83	10.28	10.73	11.18	11.62	12.07	12.52	12.96
30	13.41	13.86	14.31	14.75	15.2	15.65	16.09	16.54	16.99	17.43
40	17.88	18.33	18.78	19.22	19.67	20.12	20.56	21.01	21.46	21.91
50	22.35	22.8	23.25	23.69	24.14	24.59	25.03	25.48	25.93	26.38
60	26.82	27.27	27.72	28.16	28.61	29.06	29.5	29.95	30.4	30.85
70	31.29	31.74	32.19	32.63	33.08	33.53	33.98	34.42	34.87	35.32
80	35.76	36.21	36.66	37.1	37.55	38.0	38.45	38.89	39.34	39.79
90	40.23	40.68	41.13	41.57	42.02	42.47	42.92	43.36	43.81	44.26
100	44.7									

36
pounds force
per square inch
to kilograms
force per square
centimetre

lbf/in ²	0	1	2	3	4	5	6	7	8	9
kgf/cm ²										
0		0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63
10	0.7	0.77	0.84	0.91	0.98	1.05	1.12	1.2	1.27	1.34
20	1.41	1.48	1.55	1.62	1.69	1.76	1.83	1.9	1.97	2.04
30	2.11	2.18	2.25	2.32	2.39	2.46	2.53	2.6	2.67	2.74
40	2.81	2.88	2.95	3.02	3.09	3.16	3.23	3.3	3.37	3.45
50	3.52	3.59	3.66	3.73	3.8	3.87	3.94	4.01	4.08	4.15
60	4.22	4.29	4.36	4.43	4.5	4.57	4.64	4.71	4.78	4.85
70	4.92	4.99	5.06	5.13	5.2	5.27	5.34	5.41	5.48	5.55
80	5.62	5.69	5.77	5.84	5.91	5.98	6.05	6.12	6.19	6.26
90	6.33	6.4	6.47	6.54	6.61	6.68	6.75	6.82	6.89	6.96
100	7.03									

38
pounds force per
square inch to
kilonewtons per
square metre

lbf/in ²	0	1	2	3	4	5	6	7	8	9
kN/m ² (kPa)										
0		6.9	13.79	20.68	27.58	34.48	41.37	48.26	55.16	62.06
10	68.95	75.84	82.74	89.64	96.53	103.42	110.32	117.22	124.11	131.0
20	137.9	144.8	151.69	158.58	165.48	172.38	179.27	186.16	193.06	199.96
30	206.85	213.74	220.64	227.54	234.43	241.32	248.22	255.12	262.01	268.9
40	275.8	282.7	289.59	296.48	303.38	310.28	317.17	324.06	330.96	337.86
50	344.75	351.64	358.54	365.44	372.33	379.22	386.12	393.02	399.91	406.8
60	413.7	420.6	427.49	434.38	441.28	448.18	455.07	461.96	468.86	475.76
70	482.65	489.54	496.44	503.34	510.23	517.12	524.02	530.92	537.81	544.7
80	551.6	558.5	565.39	572.28	579.18	586.08	592.97	599.86	606.76	613.66
90	620.55	627.44	634.34	641.24	648.13	655.02	661.92	668.82	675.71	682.6
100	689.5									

Conversion
of units

CONVERSION OF UNITS

Conversion Tables

w	0	1	2	3	4	5	6	7	8	9	Refrigeration 39 watts to British thermal units per hour
Btu/hr											
0		3.41	6.82	10.24	13.65	17.06	20.47	23.89	27.3	30.71	
10	34.12	37.53	40.95	44.36	47.77	51.18	54.59	58.01	61.42	64.83	
20	68.24	71.66	75.07	78.5	81.89	85.3	88.72	92.13	95.54	98.95	
30	102.36	105.78	109.12	112.6	116.01	119.43	122.76	126.25	129.66	133.07	
40	136.49	139.91	143.31	146.72	150.13	153.55	156.96	160.37	163.78	167.2	
50	170.61	174.02	177.43	180.84	184.26	187.67	191.08	194.49	197.9	201.31	
60	204.73	208.14	211.55	214.97	218.38	221.79	225.2	228.61	232.03	235.44	
70	238.85	242.26	245.68	249.09	252.5	255.91	259.32	262.74	266.15	269.56	
80	272.97	276.38	279.8	283.21	286.62	290.03	293.45	296.86	300.27	303.68	
90	307.09	310.51	313.92	317.33	320.74	324.15	327.57	330.98	334.39	337.8	
100	341.22										

w/ (m²K)	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	Thermal conductance 41 watts per square metre kelvin to British thermal units per square foot hour degree F
Btu/(ft²hr°F)											
0.0		0.018	0.035	0.053	0.074	0.088	0.106	0.123	0.141	0.158	
1.0	0.176	0.194	0.211	0.229	0.247	0.264	0.282	0.299	0.317	0.335	
2.0	0.352	0.370	0.387	0.405	0.423	0.440	0.458	0.476	0.493	0.511	
3.0	0.528	0.546	0.564	0.581	0.599	0.616	0.634	0.652	0.669	0.687	
4.0	0.704	0.722	0.740	0.757	0.775	0.793	0.810	0.828	0.845	0.863	
5.0	0.881	0.898	0.916	0.933	0.951	0.969	0.986	1.004	1.021	1.039	
6.0	1.057	1.074	1.092	1.110	1.127	1.145	1.162	1.180	1.198	1.215	
7.0	1.233	1.250	1.268	1.286	1.303	1.321	1.34	1.356	1.374	1.391	
8.0	1.409	1.427	1.444	1.462	1.479	1.497	1.515	1.532	1.550	1.567	
9.0	1.585	1.603	1.620	1.638	1.656	1.673	1.691	1.708	1.726	1.744	
10.0	1.761										

CONVERSION OF UNITS

Conversion Tables

40
British thermal
units per hour to
watts

Btu/hr	0	1	2	3	4	5	6	7	8	9
	W									
0		0.29	0.59	0.88	1.17	1.47	1.76	2.05	2.34	2.64
10	2.93	3.22	3.52	3.81	4.1	4.4	4.69	4.98	5.28	5.57
20	5.86	6.16	6.45	6.74	7.03	7.33	7.62	7.91	8.21	8.5
30	8.79	9.09	9.38	9.67	9.97	10.26	10.55	10.84	11.14	11.43
40	11.72	12.02	12.31	12.6	12.9	13.19	13.48	13.78	14.07	14.36
50	14.66	14.95	15.24	15.53	15.83	16.12	16.41	16.71	17.0	17.29
60	17.59	17.88	18.17	18.47	18.76	19.05	19.34	19.64	19.93	20.22
70	20.52	20.81	21.1	21.4	21.69	21.98	22.28	22.57	22.86	23.15
80	23.45	23.74	24.03	24.33	24.62	24.91	25.21	25.5	25.79	26.09
90	26.38	26.67	26.97	27.26	27.55	27.84	28.14	28.43	28.72	29.02
100	29.31									

42
British thermal
units per
square foot
hour degree
F to watts per
square metre
kelvin

Btu/ (ft ² .hr°F)	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
	W/(m ² K)									
0.0	0.568	0.057	0.114	0.17	0.227	0.284	0.341	0.397	0.454	0.511
0.1	1.136	0.624	0.681	0.738	0.795	0.852	0.908	0.965	1.022	1.079
0.2	1.703	1.192	1.249	1.306	1.363	1.42	1.476	1.533	1.59	1.647
0.3	2.271	1.76	1.817	1.874	1.931	1.987	2.044	2.101	2.158	2.214
0.4		2.328	2.385	2.442	2.498	2.555	2.612	2.669	2.725	2.782
0.5	2.839	2.896	2.953	3.009	3.066	3.123	3.18	3.236	3.293	3.35
0.6	3.407	3.464	3.52	3.577	3.634	3.691	3.747	3.804	3.861	3.918
0.7	3.975	4.031	4.088	4.145	4.202	4.258	4.315	4.372	4.429	4.486
0.8	4.542	4.599	4.656	4.713	4.77	4.826	4.883	4.94	4.997	5.053
0.9	5.11	5.167	5.224	5.281	5.337	5.394	5.451	5.508	5.564	5.621
1.0	5.678									