

Tel: (207) 973-1700

Fax: (207) 973-1711

*For Continued Service Second to none, Be sure to specify Consumer Title*

## MEASUREMENT DEFINITIONS AND EQUIVALENCIES

<i>Linear Measurements</i>	<i>English Units</i>
1 Mile =	1 Link = 7.92 Inches
5280 Feet	1 Foot = 12 Inches
1760 Yards	1 Yard = 3 Feet
320 Rods	1 Rod = 16 1/2 Feet
80 chains	1 Chain = 66 Feet
	1 Chain = 100 Links

<i>Linear Measurement</i>	<i>to</i>	<i>Metric (SI) Units</i>
1 kilometer	=	1000 meters
1 meter	=	100 centimeters
1 centimeter	=	10 millimeters
1 decimeter	=	10 centimeters
1 hectate (ha)	=	10,000 m <sup>2</sup>
1 square kilometer	=	1000000 m <sup>2</sup>
	=	100 ha

<i>Area Measurements</i>	<i>English to Metric Conversion</i>
1 acre =	1 ft = 0.3048 m (exactly)
43,560 square feet	1 km = 0.62137 miles
160 square rods*	1 hectare (ha) = 2.471 acres
10 square chains	1 km <sup>2</sup> = 247.1 acres
	1 inch = 25.4 mm (exactly)*
To convert square feet to acres, multiply by .000023	* Prior to 1959, the United States used the relationship 1 m = 39.37 in. This resulted in a U.S. survey foot of 3.048006 m.
* 1 square rod = 272 1/4 square feet	

## Angular Measurement

The main angle unit is the degree, which is 1/360 of a circle.

1 revolution = 360°

1 degree = 60' (minutes)

1 minute = 60" (seconds)

Degrees, minutes and seconds are used almost exclusively in both English and metric units; however, in some countries in Europe the circle has been graduated into 400 gon (formerly called grad). Angles are expressed to four decimals (e.g., a right angle = 1000.0000 gon).



# Consumer Title

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Bangor, ME 04401

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Chains Rods Feet			Chains Rods Feet			Chains Rods Feet			Chains Rods Feet		
	1	16.5		41	676.6		81	1337		121	1997
	2	33		42	693		82	1353		122	2013
	3	49.5		43	709.5		83	1370		123	2030
1	4	66	11	44	726	21	84	1386	31	124	2046
	5	82.5		45	742.5		85	1403		125	2063
	6	99		46	759		86	1419		126	2079
	7	115.5		47	775.5		87	1436		127	2096
2	8	132	12	48	792	22	88	1452	32	128	2112
	9	148.5		49	808.5		89	1469		129	2129
	10	165		50	825		90	1485		130	2145
	11	181.5		51	841.5		91	1502		131	2162
	12	198	13	52	858	23	92	1518	33	132	2178
	13	214.5		53	874.5		93	1535		133	2195
	14	231		54	891		94	1551		134	2211
	15	247.5		55	907.5		95	1568		135	2228
4	16	264	14	56	924	24	96	1584	34	136	2244
	17	280.5		57	940.5		97	1601		137	2261
	18	297		58	957		98	1617		138	2277
	19	313.5		59	973.5		99	1634		139	2294
5	20	330	15	60	990	25	100	1650	35	140	2310
	21	346.5		61	1007		101	1667		141	2327
	22	363		62	1023		102	1683		142	2343
	23	379.5		63	1040		103	1700		143	2360
6	24	396	16	64	1056	26	104	1716	36	144	2376
	25	412.5		65	1073		105	1733		145	2393
	26	429		66	1089		106	1749		146	2409
	27	445.5		67	1106		107	1766		147	2426
7	28	462	17	68	1122	27	108	1782	37	148	2442
	29	478.5		69	1139		109	1799		149	2459
	30	495		70	1155		110	1815		150	2475
	31	511.5		71	1172		111	1832		151	2492
8	32	528	18	72	1188	28	112	1848	38	152	2508
	33	544.5		73	1205		113	1865		153	2525

	32	525	18	72	1155	28	112	1818	38	152	2535
	33	544.5		73	1205		113	1865		153	2525
	34	561		74	1221		114	1881		154	2541
	35	577.5		75	1238		115	1898		155	2558
9	36	594	19	76	1254	29	116	1914	39	156	2574
	37	610.5		77	1271		117	1931		157	2591
	38	627		78	1287		118	1947		158	2607
	39	643.5		79	1304		119	1964		159	2624
10	40	660	20	80	1320	30	120	1980	40	160	2640