CLOTH MEASURE

21	inches	7	1 nail	4 quarters 5 quarters 1 ell	1 yd.
-27	naiis	1 qt.	of yd.	5 quarters 1 ell	Eng.

LONG MEASURE.

3 barleycorns	1	inch.		
3 feet	i	vard.		
54 yards	1	rod, pole.	OF	perch.
40 poles or rods	1	furlong.		
8 furlongs, or 1760 yds.	1	mile.		

A hand is 4 inches; a fathom, 6 feet, 120 fathoms I cable's length; a cubit, 1½ feet; 60½ statute, or 60 sea-miles, I degree, 360 degrees, a great circle of the earth; 3 miles are a league; I link is equal to 7.92 inches; 800—792 inches, or 66 feet, or 4 rods, or 1 chain; 80 chains=320 rods, or 1 mile.

rods, or 1 mile.

An English or American mile is 5,280 feet; a Dutch mile, 24,303 feet; a Roman, 4,884 feet; an Arabian, 6,444 feet, a Persian parasang, 18,108 feet; 4½ English miles make 1 German, 2½ English, 1 French league; the Spanish and Polish mile is about 3½ English miles; the Russian mile or verst is about ½ of an English mile; the Hungarian, Danish and Swiss mile is between 5 and 6 English miles; the Swedish nearly 7.

SURVEYORS' LONG MEASURE.

7.92 inches (in) make	1	link	1.
201 "	-1	rd, or pole	rd or p.
4 rd., or 66 ft	1	chain	ch.
80 chains	1	mile	mi

SQUARE MEASURE.

9 square feet	. 1 square yard 1 square rod or perch. 1 rood of building. 1 rood. 1 acre. 1 square mile.
square rous or 10	

NAUTICAL MEASURE.

6 feet 120 feet 110 fathoms or 660 feet	1 cable in length.
60755 feet	1 league.
cal miles	1 degree.

The nautical mile is 7954 feet longer than the common mile.

CUBIC MEASURE.

	cubic inches	
27	cubic feet	1 cubic yard.
		1 cord ft, or 1 ft, of wood
	cord feet or 128	
	cubic feet	
	ft. of round or 50	
	ft. hewn timber	
42	cubic feet	1 ton of shipping.

CIRCULAR MEASURE.

60 seconds1 min 60 minutes1 deg 60 degrees1 sign		
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MEASURE OF TIME.

60 minutes 24 hours 7 days 28 days 28, 29, 30, or 3 12 calendar m 365 days 366 days 365 days	1 days	1 hour. 1 day. 1 week. 1 lunar month. 1 calendar m'tl 1 year. 1 common yea
365 days, 6 hou	rs, 9 minutes,	1 solar year. 1 siderial year.

HAY MEASURE.

The ton is some the long ton.	times	th	e short and sometimes
1 ton	2000	1	1 bale 300 lbs.

When hay sells at \$16 a ton, the bale is worth \$2.40; when \$15, \$2.25; when \$14, \$2.10; when \$13, \$1.95; when \$12, \$1.80; when \$11, \$1.65; when \$10, \$1.50.

YARN MEASURE.

	inches				7	skeins1		
80	threads	1	skein.	1	1.8	hanks1	spindl	ds.)

QUANTITIES BY NUMBER

12 articles1 dozen 13 articles1 long or baker's dozen,	20 articles1 score. 12 doz1 gross.
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COAL MEASURE

2000 lbs1 2240 lbs1 38 cubic ft. 1	ong ton.	29	cubic ft.1 bushels1 bushels.1	long ton
00 00000 101 1	0100000000000	100	O M G M G F G + F	CHGIGION.

PAPER MEASURE.

24 sheets	1 quire.	2 reams1	bundle.
24 sheets 20 quires	1 ream.	10 reams1	bale.

ROPE MEASURE.

6 feet fathom 120 feet	t1 cable.
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The ropes of all sizes are distinguished by the diameter of the same, for instance, a two inch rope means one two inches in diameter, etc.

The strongest kind of hemp rope is untarred. White, three strand rope, and the next in strength is that which is known as the common three-

strand, hawse laid rope, tarred.
Wire rope is more than double the strength of hemp rope of the same thickness. Splicing a rope is said to weaken it one-

eighth.

To find what weight a rope will lift when

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worm ! Α T

roven as a tackle: Multiply the weight that the rope is capable of suspending by the number of parts at the moveable block, and from this substract one-fourth for resistance. Thus: 8.9 tons, the strength of the rope multiplied by 6, the number