

SCRIBNER'S
READY RECKONER
AND
LOG BOOK,

FOR
Ship Builders, Boat Builders,
AND
LUMBER MERCHANTS.

By J. M. SCRIBNER, A. M.
AUTHOR OF "ENGINEERS AND MECHANICS' COMPANION,"
"ENGINEERS' POCKET TABLE BOOK," ETC.

REVISED AND IMPROVED EDITION.

TORONTO:
PUBLISHED BY ADAM MILLER.

1889.

Useful Table for Farmers.

Standard Weight of Grain per Bushel, Established by Act of Parliament.

Wheat	60 lbs.	Peas	60 lbs.	Clover Seed	60 lbs.
Indian Corn	56 "	Beans, Castor	40 "	Timothy Seed	48 "
Rye	56 "	Turnips	60 "	Flax	50 "
Barley	48 "	Carrots	60 "	Hemp Seed	44 "
Buckwheat	48 "	Parsnips	60 "	Blue Grass Seed	14 "
Oats	34 "	Beets	60 "	Dried Apples	22 "
Malt	36 "	Onions	60 "	Dried Peaches	33 "
Peas	60 "	Potatoes	60 "	Salt	55 "

THE
READY RECKONER;

FOR SHIP BUILDERS, BOAT BUILDERS, AND
LUMBER MERCHANTS.

BEING A CORRECT MEASUREMENT OF
SCANTLING, BOARDS, PLANK, CUBICAL CONTENTS OF SQUARE
AND ROUND TIMBER, SAW-LOGS, WOOD, ETC., COMPRISED
IN A NUMBER OF TABLES; TO WHICH ARE ADDED
TABLES OF WAGES BY THE MONTH, BOARD,
OR RENT BY THE WEEK OR DAY,
AND RAIL ROAD DISTANCES.

ALSO,
INTEREST TABLES AT SEVEN PER CENT.

BY J. M. SCRIBNER, A. M.
AUTHOR OF "ENGINEERS' AND MECHANICS' COMPANION,"
"PRACTICAL MENSURATION," ETC. ETC.

REVISED AND IMPROVED EDITION.

TORONTO:
PUBLISHED BY ADAM MILLER.

1867.

RECOMMENDATIONS.

WE have carefully examined "THE READY RECKONER," by J. M. SCRIBNER, A. M., and we take pleasure in recommending it to the confidence and patronage of those interested in such books, as one of the most convenient, extensive and correct Table books within our knowledge.

These Tables are sufficiently numerous and extensive, and, what is of the greatest importance, they may be *safely* relied upon for the correctness of the results given, by both buyer and seller of Lumber of any kind.

SYLVESTER BROWN, { Sawyer and
Lumber Dealer,
L. A. BURROWS, { Buffalo, N. Y.

Rochester, January, 1846.

SCRIBNER'S ENGINEERS' AND MECHANICS' COMPANION;

PUBLISHED BY

HUNTINGTON & SAVAGE, 216 PEARL STREET, N. Y.

THIS neat and convenient pocket volume is justly entitled to the praise of diligence, care, and a wise selection of useful and practical subjects; and these are qualities sufficient of themselves to make the book valuable to artisans in general. We venture to say it contains more exact practical knowledge for Engineers, Millwrights, and Mechanics, than has ever before been embraced in the same compass. No mechanic or engineer can dispense with so practical and useful a work, without much inconvenience to himself. We trust it will find a general sale among those whom it was specially intended to benefit.—*Hartford Daily Courant.*

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PREFACE

TO THE FIRST EDITION.

THE following tables will be found a very convenient assistant for persons who deal in wood, or lumber of any kind, as they afford correct and accurate results, without the labor necessarily attending minute and hasty calculations. In preparing these tables, every endeavor has been made to insure correctness; and the accuracy of the results given can be relied on with the greatest certainty, as they have been thoroughly tested in an extensive practice. They show, at one view, the board measure of any piece of scantling or plank; the cubical or solid contents of round or hewn timber, of different dimensions; also, round timber reduced to square timber; the amount of square-edged boards which logs of various sizes will produce—all in a manner so plain, that a person moderately versed in arithmetical computations cannot fail of arriving at correct results. To those versed in figures, they cannot fail to be equally useful and convenient, as they will serve to prove their own calculations, when otherwise, through the hurry of business, they might seem doubtful.

THE AUTHOR.

PREFACE

TO THE SECOND EDITION.

THE rapid sale and success which has attended the former editions of this work, is the best evidence of its utility; consequently no apology need be offered for again presenting it to the notice of the public.

In preparing this edition for the press, the utmost care has been exercised, and several *typographical* errors which crept into the former edition, have been detected and corrected in this, and the whole carefully revised. Several additional tables have also been added, which, it is to be hoped, will render the work still more acceptable and useful.

THE AUTHOR.

TABLE I.

SCANTLING MEASURE,

ACCURATELY REDUCED TO INCH BOARD MEASURE.

EXPLANATION.

THE length of any piece of scantling, or timber, will be found in the left-hand column, under the side dimensions. The breadth and depth, (or side dimensions,) in inches, will be found at the head of each column of computations. Thus, on page 10, a piece of scantling, $2\frac{1}{2}$ by 11 inches, side dimension, and 16 feet long, is shown to contain 36 feet and 8 inches of board measure. On page 12, a piece of scantling 4 by 10 inches, side dimension, and 17 feet long, is shown to contain 56 feet 8 inches, board measure. The answer sought for, in all cases, will be found directly on the right of the length, and under the side dimensions. If a piece of scantling, or stick of timber, should exceed in length any provision which has been made in these tables, its contents would be shown by taking twice what is given for half its length. Thus, a piece of scantling 46 feet long, would contain twice as many feet, board measure, as is shown in the table to be the contents of a stick 23 feet long. So, also, one 39 feet long would contain as many feet, board measure, as these tables show opposite to 22 and 17 feet long, or three times the contents of one 13 feet long.

SCANTLING MEASURE.

2 by 2.		2 by 3.		2 by 4.		2 by 5.		2 by 6.	
length		length		length		length		length	
1	0.4	1	0.6	1	0.8	1	0.10	1	1.
2	0.8	2	1.	2	1.4	2	1.8	2	2.
3	1.	3	1.6	3	2.	3	2.6	3	3.
4	1.4	4	2.	4	2.8	4	3.4	4	4.
5	1.8	5	2.6	5	3.4	5	4.2	5	5.
6	2.	6	3.	6	4.	6	5.	6	6.
7	2.4	7	3.6	7	4.8	7	5.10	7	7.
8	2.8	8	4.	8	5.4	8	6.8	8	8.
9	3.	9	4.6	9	6.	9	7.6	9	9.
10	3.4	10	5.	10	6.8	10	8.4	10	10.
11	3.8	11	5.6	11	7.4	11	9.2	11	11.
12	4.	12	6.	12	8.	12	10.	12	12.
13	4.4	13	6.6	13	8.8	13	10.10	13	13.
14	4.8	14	7.	14	9.4	14	11.8	14	14.
15	5.	15	7.6	15	10.	15	12.6	15	15.
16	5.4	16	8.	16	10.8	16	13.4	16	16.
17	5.8	17	8.6	17	11.4	17	14.2	17	17.
18	6.	18	9.	18	12.	18	15.	18	18.
19	6.4	19	9.6	19	12.8	19	15.10	19	19.
20	6.8	20	10.	20	13.4	20	16.8	20	20.
21	7.	21	10.6	21	14.	21	17.6	21	21.
22	7.4	22	11.	22	14.8	22	18.4	22	22.
23	7.8	23	11.6	23	15.4	23	19.2	23	23.
24	8.	24	12.	24	16.	24	20.	24	24.
25	8.4	25	12.6	25	16.8	25	20.10	25	25.
26	8.8	26	13.	26	17.4	26	21.8	26	26.
27	9.	27	13.6	27	18.	27	22.6	27	27.
28	9.4	28	14.	28	18.8	28	23.4	28	28.
29	9.8	29	14.6	29	19.4	29	24.2	29	29.
30	10.	30	15.	30	20.	30	25.	30	30.

SCANTLING MEASURE.

2 by 7.		2 by 8.		2 by 9.		2 by 10.		2 by 11.	
Length	1	1	1	Length	1	1	Length	1	1
2	1.2	2	1.4	2	1.6	2	1.8	2	1.10
3	2.4	3	2.8	3	3.	3	3.4	3	3.8
4	3.6	4	4.	4	4.6	4	5.	4	5.6
5	4.8	5	5.4	5	6.	5	6.8	5	7.4
6	5.10	6	6.8	6	7.6	6	8.4	6	9.2
7	7.	7	8.	7	9.	7	10.	7	11.
8	8.2	8	9.4	8	10.6	8	11.8	8	12.10
9	9.4	9	10.8	9	12.	9	13.4	9	14.8
10	10.6	10	12.	10	13.6	10	15.	10	16.6
11	11.8	11	13.4	11	15.	11	16.8	11	18.4
12	12.10	12	14.8	12	16.6	12	18.4	12	20.2
13	14.	13	16.	13	18.	13	20.	13	22.
14	15.2	14	17.4	14	19.6	14	21.8	14	23.10
15	16.4	15	18.8	15	21.	15	23.4	15	25.8
16	17.6	16	20.	16	22.6	16	25.	16	27.6
17	18.8	17	21.4	17	24.	17	26.8	17	29.4
18	19.10	18	22.8	18	25.6	18	28.4	18	31.2
19	21.	19	24.	19	27.	19	30.	19	33.
20	22.2	20	25.4	20	28.6	20	31.8	20	34.10
21	23.4	21	26.8	21	30.	21	33.4	21	36.8
22	24.6	22	28.	22	31.6	22	35.	22	38.6
23	25.8	23	29.4	23	33.	23	36.8	23	40.4
24	26.10	24	30.8	24	34.6	24	38.4	24	42.2
25	28.	25	32.	25	36.	25	40.	25	44.
26	29.2	26	33.4	26	37.6	26	41.8	26	45.10
27	30.4	27	34.8	27	39.	27	43.4	27	47.8
28	31.6	28	36.	28	40.6	28	45.	28	49.6
29	32.8	29	37.4	29	42.	29	46.8	29	51.4
30	33.10	30	38.8	30	43.6	30	48.4	30	53.2
31	35.	31	40.	31	45.	31	50.	31	55.

SCANTLING MEASURE.

2½ by 5.		2½ by 6.		2½ by 7.		2½ by 8.		2½ by 9.	
Length	1	Length	1	Length	1	Length	1	Length	1
1	1.1	1	1.3	1	1.6	1	1.8	1	1.11
2	2.1	2	2.6	2	2.11	2	2.4	2	2.9
3	3.2	3	3.9	3	4.5	3	5.	3	5.8
4	4.2	4	5.	4	5.10	4	6.8	4	7.6
5	5.3	5	6.3	5	7.4	5	8.4	5	9.5
6	6.3	6	7.6	6	8.9	6	10.	6	11.3
7	7.4	7	8.9	7	10.3	7	11.8	7	13.2
8	8.4	8	10.	8	11.8	8	13.4	8	15.
9	9.5	9	11.3	9	13.2	9	15.	9	16.11
10	10.5	10	12.6	10	14.7	10	16.8	10	18.9
11	11.6	11	13.9	11	16.1	11	18.4	11	20.3
12	12.6	12	15.	12	17.6	12	20.	12	22.6
13	13.7	13	16.3	13	19.	13	21.8	13	24.5
14	14.7	14	17.6	14	20.5	14	23.4	14	26.3
15	15.8	15	18.9	15	21.11	15	25.	15	28.2
16	16.8	16	20.	16	23.4	16	26.8	16	30.
17	17.9	17	21.3	17	24.10	17	28.4	17	31.11
18	18.9	18	22.6	18	26.3	18	30.	18	33.9
19	19.10	19	23.9	19	27.9	19	31.8	19	35.8
20	20.10	20	25.	20	29.2	20	33.4	20	37.6
21	21.11	21	26.3	21	30.8	21	35.	21	39.5
22	22.11	22	27.6	22	32.1	22	36.8	22	41.3
23	24.	23	28.9	23	33.7	23	38.4	23	43.2
24	25.	24	30.	24	35.	24	40.	24	45.
25	26.1	25	31.3	25	36.6	25	41.8	25	46.11
26	27.1	26	32.6	26	37.11	26	43.4	26	48.9
27	28.2	27	33.9	27	39.5	27	45.	27	50.8
28	29.2	28	35.	28	40.10	28	46.8	28	52.6
29	30.3	29	36.3	29	42.4	29	48.4	29	54.5
30	31.3	30	37.6	30	43.9	30	50.	30	56.3

SCANTLING MEASURE.

2½ by 10.		2½ by 11.		2½ by 12.		3 by 3.		3 by 4.	
Length		Length		Length		Length		Length	
1	2.1	1	2.4	1	2.6	1	0.9	1	1.
2	4.2	2	4.7	2	5.	2	1.6	2	2.
3	6.3	3	6.11	3	7.6	3	2.3	3	3.
4	8.4	4	9.2	4	10.	4	3.	4	4.
5	10.5	5	11.6	5	12.6	5	3.9	5	5.
6	12.6	6	13.9	6	15.	6	4.6	6	6.
7	14.7	7	16.1	7	17.6	7	5.3	7	7.
8	16.8	8	18.4	8	20.	8	6.	8	8.
9	18.9	9	20.8	9	22.6	9	6.9	9	9.
10	20.10	10	22.11	10	25.	10	7.6	10	10.
11	22.11	11	25.3	11	27.6	11	8.3	11	11.
12	25.	12	27.6	12	30.	12	9.	12	12.
13	27.1	13	29.10	13	32.6	13	9.9	13	13.
14	29.2	14	32.1	14	35.	14	10.6	14	14.
15	31.3	15	34.4	15	37.6	15	11.3	15	15.
16	33.4	16	36.8	16	40.	16	12.	16	16.
17	35.5	17	39.	17	42.6	17	12.9	17	17.
18	37.6	18	41.3	18	45.	18	13.6	18	18.
19	39.7	19	43.7	19	47.6	19	14.3	19	19.
20	41.8	20	45.10	20	50.	20	15.	20	20.
21	43.9	21	48.2	21	52.6	21	15.9	21	21.
22	45.10	22	50.5	22	55.	22	16.6	22	22.
23	47.11	23	52.9	23	57.6	23	17.3	23	23.
24	50.	24	55.	24	60.	24	18.	24	24.
25	52.1	25	57.4	25	62.6	25	18.9	25	25.
26	54.2	26	59.7	26	65.	26	19.6	26	26.
27	56.3	27	61.11	27	67.6	27	20.3	27	27.
28	58.4	28	64.2	28	70.	28	21.	28	28.
29	60.5	29	66.6	29	72.6	29	21.9	29	29.
30	62.6	30	68.9	30	75.	30	22.6	30	30.

SCANTLING MEASURE.

3 by 5.		3 by 6.		3 by 7.		3 by 8.		3 by 9.	
Length.		Length.		Length.		Length.		Length.	
1	1.3	1	1.6	1	1.9	1	2.	1	2.3
2	2.6	2	3.	2	3.6	2	4.	2	4.6
3	3.9	3	4.6	3	5.3	3	6.	3	6.9
4	5.	4	6.	4	7.	4	8.	4	9.
5	6.3	5	7.6	5	8.9	5	10.	5	11.3
6	7.6	6	9.	6	10.6	6	12.	6	13.6
7	8.9	7	10.6	7	12.3	7	14.	7	15.9
8	10.	8	12.	8	14.	8	16.	8	18.
9	11.3	9	13.6	9	15.9	9	18.	9	20.3
10	12.6	10	15.	10	17.6	10	20.	10	22.6
11	13.9	11	16.6	11	19.3	11	22.	11	24.9
12	15.	12	18.	12	21.	12	24.	12	27.
13	16.3	13	19.6	13	22.9	13	26.	13	29.3
14	17.6	14	21.	14	24.6	14	28.	14	31.6
15	18.9	15	22.6	15	26.3	15	30.	15	33.9
16	20.	16	24.	16	28.	16	32.	16	36.
17	21.3	17	25.6	17	29.9	17	34.	17	38.3
18	22.6	18	27.	18	31.6	18	36.	18	40.6
19	23.9	19	28.6	19	33.3	19	38.	19	42.9
20	25.	20	30.	20	35.	20	40.	20	45.
21	26.3	21	31.6	21	36.9	21	42.	21	47.3
22	27.6	22	33.	22	38.6	22	44.	22	49.6
23	28.9	23	34.6	23	40.3	23	46.	23	51.9
24	30.	24	36.	24	42.	24	48.	24	54.
25	31.3	25	37.6	25	43.9	25	50.	25	56.3
26	32.6	26	39.	26	45.6	26	52.	26	58.6
27	33.9	27	40.6	27	47.3	27	54.	27	60.9
28	35.	28	42.	28	49.	28	56.	28	63.
29	36.3	29	43.6	29	50.9	29	58.	29	65.3
30	37.6	30	45.	30	52.6	30	60.	30	67.6

SCANTLING MEASURE.

3 by 10.		3 by 11.		3 by 12.		4 by 4.		4 by 5.	
Length.		Length.		Length.		Length.		Length.	
1	2.6	1	2.9	1	3.	1	1.4	1	1.8
2	5.	2	5.6	2	6.	2	2.8	2	3.4
3	7.6	3	8.3	3	9.	3	4.	3	5.
4	10.	4	11.	4	12.	4	5.4	4	6.8
5	12.6	5	13.9	5	15.	5	6.8	5	8.4
6	15.	6	16.6	6	18.	6	8.	6	10.
7	17.6	7	19.3	7	21.	7	9.4	7	11.8
8	20.	8	22.	8	24.	8	10.8	8	13.4
9	22.6	9	24.9	9	27.	9	12.	9	15.
10	25.	10	27.6	10	30.	10	13.4	10	16.8
11	27.6	11	30.3	11	33.	11	14.8	11	18.4
12	30.	12	33.	12	36.	12	16.	12	20.
13	32.6	13	35.9	13	39.	13	17.4	13	21.8
14	35.	14	38.6	14	42.	14	18.8	14	23.4
15	37.6	15	41.3	15	45.	15	20.	15	25.
16	40.	16	44.	16	48.	16	21.4	16	26.8
17	42.6	17	46.9	17	51.	17	22.8	17	28.4
18	45.	18	49.6	18	54.	18	24.	18	30.
19	47.6	19	52.3	19	57.	19	25.4	19	31.8
20	50.	20	55.	20	60.	20	26.8	20	33.4
21	52.6	21	57.9	21	63.	21	28.	21	35.
22	55.	22	60.6	22	66.	22	29.4	22	36.8
23	57.6	23	63.3	23	69.	23	30.8	23	38.4
24	60.	24	66.	24	72.	24	32.	24	40.
25	62.6	25	68.9	25	75.	25	33.4	25	41.8
26	65.	26	71.6	26	78.	26	34.8	26	43.4
27	67.6	27	74.3	27	81.	27	36.	27	45.
28	70.	28	77.	28	84.	28	37.4	28	46.8
29	72.6	29	79.9	29	87.	29	38.8	29	48.4
30	75.	30	82.6	30	90.	30	40.	30	50.

SCANTLING MEASURE.

4 by 6.		4 by 7.		4 by 8.		4 by 9.		4 by 10.	
Length.		Length.		Length.		Length.		Length.	
1	2.	1	2.4	1	2.8	1	3.	1	3.4
2	4.	2	4.8	2	5.4	2	6.	2	6.8
3	6.	3	7.	3	8.	3	9.	3	10.
4	8.	4	9.4	4	10.8	4	12.	4	13.4
5	10.	5	11.8	5	13.4	5	15.	5	16.8
6	12.	6	14.	6	16.	6	18.	6	20.
7	14.	7	16.4	7	18.8	7	21.	7	23.4
8	16.	8	18.8	8	21.4	8	24.	8	26.8
9	18.	9	21.	9	24.	9	27.	9	30.
10	20.	10	23.4	10	26.8	10	30.	10	33.4
11	22.	11	25.8	11	29.4	11	33.	11	36.8
12	24.	12	28.	12	32.	12	36.	12	40.
13	26.	13	30.4	13	34.8	13	39.	13	43.4
14	28.	14	32.8	14	37.4	14	42.	14	46.8
15	30.	15	35.	15	40.	15	45.	15	50.
16	32.	16	37.4	16	42.8	16	48.	16	53.4
17	34.	17	39.8	17	45.4	17	51.	17	56.8
18	36.	18	42.	18	48.	18	54.	18	60.
19	38.	19	44.4	19	50.8	19	57.	19	63.4
20	40.	20	46.8	20	53.4	20	60.	20	66.8
21	42.	21	49.	21	56.	21	63.	21	70.
22	44.	22	51.4	22	58.8	22	66.	22	73.4
23	46.	23	53.8	23	61.4	23	69.	23	76.8
24	48.	24	56.	24	64.	24	72.	24	80.
25	50.	25	58.4	25	66.8	25	75.	25	83.4
26	52.	26	60.8	26	69.4	26	78.	26	86.8
27	54.	27	63.	27	72.	27	81.	27	90.
28	56.	28	65.4	28	74.8	28	84.	28	93.4
29	58.	29	67.8	29	77.4	29	87.	29	96.8
30	60.	30	70.	30	80.	30	90.	30	100.

SCANTLING MEASURE.

4 by 11.		4 by 12.		5 by 5.		5 by 6.		5 by 7.	
Length.		Length.		Length.		Length.		Length.	
1	3.8	1	4.	1	2.1	1	2.6	1	2.11
2	7.4	2	8.	2	4.2	2	5.	2	5.10
3	11.	3	12.	3	6.3	3	7.6	3	8.9
4	14.8	4	16.	4	8.4	4	10.	4	11.8
5	18.4	5	20.	5	10.5	5	12.6	5	14.7
6	22.	6	24.	6	12.6	6	15.	6	17.6
7	25.8	7	28.	7	14.7	7	17.6	7	20.5
8	29.4	8	32.	8	16.8	8	20.	8	23.4
9	33.	9	36.	9	18.9	9	22.6	9	26.3
10	36.8	10	40.	10	20.10	10	25.	10	29.2
11	40.4	11	44.	11	22.11	11	27.6	11	32.1
12	44.	12	48.	12	25.	12	30.	12	35.
13	47.8	13	52.	13	27.1	13	32.6	13	37.11
14	51.4	14	56.	14	29.2	14	35.	14	40.10
15	55.	15	60.	15	31.3	15	37.6	15	43.9
16	58.8	16	64.	16	33.4	16	40.	16	46.8
17	62.4	17	68.	17	35.5	17	42.6	17	49.7
18	66.	18	72.	18	37.6	18	45.	18	52.6
19	69.8	19	76.	19	39.7	19	47.6	19	55.5
20	73.4	20	80.	20	41.8	20	50.	20	58.4
21	77.	21	84.	21	43.9	21	52.6	21	61.3
22	80.8	22	88.	22	45.10	22	55.	22	64.2
23	84.4	23	92.	23	47.11	23	57.6	23	67.1
24	88.	24	96.	24	50.	24	60.	24	70.
25	91.8	25	100.	25	52.1	25	62.6	25	72.11
26	95.4	26	104.	26	54.2	26	65.	26	75.10
27	99.	27	108.	27	56.3	27	67.6	27	78.9
28	102.8	28	112.	28	58.4	28	70.	28	81.8
29	106.4	29	116.	29	60.5	29	72.6	29	84.7
30	110.	30	120.	30	62.6	30	75.	30	87.6

SCANTLING MEASURE.

5 by 8.		5 by 9.		5 by 10.		6 by 6.		6 by 7.	
Length.		Length.		Length.		Length.		Length.	
1	3.4	1	3.9	1	4.2	1	3.	1	3.6
2	6.8	2	7.0	2	8.4	2	6.	2	7.
3	10.	3	11.3	3	12.6	3	9.	3	10.6
4	13.4	4	15.	4	16.8	4	12.	4	14.
5	16.8	5	18.9	5	20.10	5	15.	5	17.6
6	20.	6	22.0	6	25.	6	18.	6	21.
7	23.4	7	26.3	7	29.2	7	21.	7	24.6
8	26.8	8	30.	8	33.4	8	24.	8	28.
9	30.	9	33.9	9	37.6	9	27.	9	31.6
10	33.4	10	37.0	10	41.8	10	30.	10	35.
11	36.8	11	41.3	11	45.10	11	33.	11	38.6
12	40.	12	45.	12	50.	12	36.	12	42.
13	43.4	13	48.9	13	54.2	13	39.	13	45.6
14	46.8	14	52.0	14	58.4	14	42.	14	49.
15	50.	15	56.3	15	62.6	15	45.	15	52.6
16	53.4	16	60.	16	66.8	16	48.	16	56.
17	56.8	17	63.9	17	70.10	17	51.	17	59.6
18	60.	18	67.0	18	75.	18	54.	18	63.
19	63.4	19	71.3	19	79.2	19	57.	19	66.6
20	66.8	20	75.	20	83.4	20	60.	20	70.
21	70.	21	78.9	21	87.6	21	63.	21	73.6
22	73.4	22	82.0	22	91.8	22	66.	22	77.
23	76.8	23	86.3	23	95.10	23	69.	23	80.6
24	80.	24	90.	24	100.	24	72.	24	84.
25	83.4	25	93.9	25	104.2	25	75.	25	87.6
26	86.8	26	97.0	26	108.4	26	78.	26	91.
27	90.	27	101.3	27	112.6	27	81.	27	94.6
28	93.4	28	105.	28	116.8	28	84.	28	98.
29	96.8	29	108.9	29	120.10	29	87.	29	101.6
30	100.	30	112.0	30	125.	30	90.	30	105.

SCANTLING MEASURE.

6 by 8.		7 by 7.		7 by 8.		7 by 9.		8 by 8.	
Length.		Length.		Length.		Length.		Length.	
1	4.	1	4.1	1	4.8	1	5.3	1	5.4
2	8.	2	8.2	2	9.4	2	10.0	2	10.8
3	12.	3	12.3	3	14.	3	15.9	3	16.
4	16.	4	16.4	4	18.8	4	21.	4	21.4
5	20.	5	20.5	5	23.4	5	26.3	5	26.8
6	24.	6	24.6	6	28.	6	31.0	6	32.
7	28.	7	28.7	7	32.8	7	36.9	7	37.4
8	32.	8	32.8	8	37.4	8	42.	8	42.8
9	36.	9	36.9	9	42.	9	47.3	9	48.
10	40.	10	40.10	10	46.8	10	52.0	10	53.4
11	44.	11	44.11	11	51.4	11	57.9	11	58.8
12	48.	12	49.	12	56.	12	63.	12	64.
13	52.	13	53.1	13	60.8	13	68.3	13	69.4
14	56.	14	57.2	14	65.4	14	73.0	14	74.8
15	60.	15	61.3	15	70.	15	78.9	15	80.
16	64.	16	65.4	16	74.8	16	84.	16	85.4
17	68.	17	69.5	17	79.4	17	89.3	17	90.8
18	72.	18	73.6	18	84.	18	94.0	18	96.
19	76.	19	77.7	19	88.8	19	99.9	19	101.4
20	80.	20	81.8	20	93.4	20	105.	20	106.8
21	84.	21	85.9	21	98.	21	110.3	21	112.
22	88.	22	89.10	22	102.8	22	115.0	22	117.4
23	92.	23	93.11	23	107.4	23	120.9	23	122.8
24	96.	24	98.	24	112.	24	126.	24	128.
25	100.	25	102.1	25	116.8	25	131.3	25	133.4
26	104.	26	106.2	26	121.4	26	136.6	26	138.8
27	108.	27	110.3	27	126.	27	141.9	27	144.
28	112.	28	114.4	28	130.8	28	147.	28	149.4
29	116.	29	118.5	29	135.4	29	152.3	29	154.8
30	120.	30	122.6	30	140.	30	157.0	30	160.

SCANTLING MEASURE.

8 by 9.		8 by 10.		9 by 9.		9 by 10.		9 by 11.	
Length		Length		Length		Length		Length	
1	6.	1	6.8	1	6.9	1	7.6	1	8.3
2	12.	2	13.4	2	13.6	2	15.	2	16.6
3	18.	3	20.	3	20.3	3	22.6	3	24.9
4	24.	4	26.8	4	27.	4	30.	4	33.
5	30.	5	33.4	5	33.9	5	37.6	5	41.3
6	36.	6	40.	6	40.6	6	45.	6	49.6
7	42.	7	46.8	7	47.3	7	52.6	7	57.9
8	48.	8	53.4	8	54.	8	60.	8	66.
9	54.	9	60.	9	60.9	9	67.6	9	74.3
10	60.	10	66.8	10	67.6	10	75.	10	82.6
11	66.	11	73.4	11	74.3	11	82.6	11	90.9
12	72.	12	80.	12	81.	12	90.	12	99.
13	78.	13	86.8	13	87.9	13	97.6	13	107.3
14	84.	14	93.4	14	94.6	14	105.	14	115.6
15	90.	15	100.	15	101.3	15	112.6	15	123.9
16	96.	16	106.8	16	108.	16	120.	16	132.
17	102.	17	113.4	17	114.9	17	127.6	17	140.3
18	108.	18	120.	18	121.6	18	135.	18	148.6
19	114.	19	126.8	19	128.3	19	142.6	19	156.9
20	120.	20	133.4	20	135.	20	150.	20	165.
21	126.	21	140.	21	141.9	21	157.6	21	173.3
22	132.	22	146.8	22	148.6	22	165.	22	181.6
23	138.	23	153.4	23	155.3	23	172.6	23	189.9
24	144.	24	160.	24	162.	24	180.	24	198.
25	150.	25	166.8	25	168.9	25	187.6	25	206.3
26	156.	26	173.4	26	175.6	26	195.	26	214.6
27	162.	27	180.	27	182.3	27	202.6	27	222.9
28	168.	28	186.8	28	189.	28	210.	28	231.
29	174.	29	193.4	29	195.9	29	217.6	29	239.3
30	180.	30	200.	30	202.6	30	225.	30	247.6

SCANTLING MEASURE.

10 by 10.		10 by 11.		10 by 12.		11 by 11.		11 by 12.	
Length.		Length.		Length.		Length.		Length.	
1	8.4	1	9.2	1	10.	1	10.1	1	11.
2	16.8	2	18.4	2	20.	2	20.2	2	22.
3	25.	3	27.6	3	30.	3	30.3	3	33.
4	33.4	4	36.8	4	40.	4	40.4	4	44.
5	41.8	5	45.10	5	50.	5	50.5	5	55.
6	50.	6	55.	6	60.	6	60.6	6	66.
7	58.4	7	64.2	7	70.	7	70.7	7	77.
8	66.8	8	73.4	8	80.	8	80.8	8	88.
9	75.	9	82.6	9	90.	9	90.9	9	99.
10	83.4	10	91.8	10	100.	10	100.10	10	110.
11	91.8	11	100.10	11	110.	11	110.11	11	121.
12	100.	12	110.	12	120.	12	121.	12	132.
13	108.4	13	119.2	13	130.	13	131.1	13	143.
14	116.8	14	128.4	14	140.	14	141.2	14	154.
15	125.	15	137.6	15	150.	15	151.3	15	165.
16	133.4	16	146.8	16	160.	16	161.4	16	176.
17	141.8	17	155.10	17	170.	17	171.5	17	187.
18	150.	18	165.	18	180.	18	181.6	18	198.
19	158.4	19	174.2	19	190.	19	191.7	19	209.
20	166.8	20	183.4	20	200.	20	201.8	20	220.
21	175.	21	192.6	21	210.	21	211.9	21	231.
22	183.4	22	201.8	22	220.	22	221.10	22	242.
23	191.8	23	210.10	23	230.	23	231.11	23	253.
24	200.	24	220.	24	240.	24	242.	24	264.
25	208.4	25	229.2	25	250.	25	252.1	25	275.
26	216.8	26	238.4	26	260.	26	262.2	26	286.
27	225.	27	247.6	27	270.	27	272.3	27	297.
28	233.4	28	256.8	28	280.	28	282.4	28	308.
29	241.8	29	265.10	29	290.	29	292.5	29	319.
30	250.	30	275.	30	300.	30	302.6	30	330.

TABLE II.

BOARD MEASURE.

LENGTH IN FEET.

INS.	4.	5.	6.	7.	8.	9.	10.
6	2·00	2·06	3·00	3·06	4·00	4·06	5·00
7	2·04	2·11	3·06	4·01	4·08	5·03	5·10
8	2·08	3·04	4·00	4·08	5·04	6·00	6·08
9	3·00	3·09	4·06	5·03	6·00	6·09	7·06
10	3·04	4·02	5·00	5·10	6·08	7·06	8·04
11	3·08	4·07	5·06	6·05	7·04	8·03	9·02
12	4·00	5·00	6·00	7·00	8·00	9·00	10·00
13	4·04	5·05	6·06	7·07	8·08	9·09	10·10
14	4·08	5·10	7·00	8·02	9·04	10·06	11·08
15	5·00	6·03	7·06	8·09	10·00	11·03	12·06
16	5·04	6·08	8·00	9·04	10·08	12·00	13·04
17	5·08	7·01	8·06	9·11	11·04	12·09	14·02
18	6·00	7·06	9·00	10·06	12·00	13·06	15·00
19	6·04	7·11	9·06	11·01	12·08	14·03	15·10
20	6·08	8·04	10·00	11·08	13·04	15·00	16·08
21	7·00	8·09	10·06	12·03	14·00	15·09	17·06
22	7·04	9·02	11·00	12·10	14·08	16·06	18·04
23	7·08	9·07	11·06	13·05	15·04	17·03	19·02
24	8·00	10·00	12·00	14·00	16·00	18·00	20·00
25	8·04	10·05	12·06	14·07	16·08	18·09	20·10
26	8·08	10·10	13·00	15·02	17·04	19·06	21·08
27	9·00	11·03	13·06	15·09	18·00	20·03	22·06
28	9·04	11·08	14·00	16·04	18·08	21·00	23·04
29	9·08	12·01	14·06	16·11	19·04	21·09	24·02
30	10·00	12·06	15·00	17·06	20·00	22·06	25·00

* The width is in the margin—length at the head.

BOARD MEASURE.

LENGTH IN FEET.

Ins.	11.	12.	13.	14.	15.	16.	17.
3	2·08	3·00	3·03	3·06	3·09	4·00	4·03
4	3·08	4·00	4·04	4·08	5·00	5·04	5·08
5	4·07	5·00	5·05	5·10	6·03	6·08	7·01
6	5·06	6·00	6·06	7·00	7·06	8·00	8·06
7	6·05	7·00	7·07	8·02	8·09	9·04	9·11
8	7·04	8·00	8·08	9·04	10·00	10·08	11·04
9	8·03	9·00	9·09	10·06	11·03	12·00	12·09
10	9·02	10·00	10·10	11·08	12·06	13·04	14·02
11	10·01	11·00	11·11	12·10	13·09	14·08	15·07
12	11·00	12·00	13·00	14·00	15·00	16·00	17·00
13	11·11	13·00	14·01	15·02	16·03	17·04	18·05
14	12·10	14·00	15·02	16·04	17·06	18·08	19·10
15	13·09	15·00	16·03	17·06	18·09	20·00	21·03
16	14·08	16·00	17·04	18·08	20·00	21·04	22·08
17	15·07	17·00	18·05	19·10	21·03	22·08	24·01
18	16·06	18·00	19·06	21·00	22·06	24·00	25·06
19	17·05	19·00	20·07	22·02	23·09	25·04	26·11
20	18·04	20·00	21·08	23·04	25·00	26·08	28·04
21	19·03	21·00	22·09	24·06	26·03	28·00	29·09
22	20·02	22·00	23·10	25·08	27·06	29·04	31·02
23	21·01	23·00	24·11	26·10	28·09	30·08	32·07
24	22·00	24·00	26·00	28·00	30·00	32·00	34·00
25	22·11	25·00	27·01	29·02	31·03	33·04	35·05
26	23·10	26·00	28·02	30·04	32·06	34·08	36·10
27	24·09	27·00	29·03	31·06	33·09	36·00	38·03
28	25·08	28·00	30·04	32·08	35·00	37·04	39·08
29	26·07	29·00	31·05	33·10	36·03	38·08	41·01
30	27·06	30·00	32·06	35·00	37·06	40·00	42·06

. The width is in the margin—length at the head.

BOARD MEASURE.

LENGTH IN FEET.

INS.	18.	19.	20.	21.	22.	23.	24.
3	4·06	4·09	5·00	5·02	5·06	5·09	6·00
4	6·00	6·04	6·08	7·00	7·04	7·08	8·00
5	7·03	7·11	8·04	8·09	9·02	9·07	10·00
6	9·00	9·06	10·00	10·06	11·00	11·06	12·00
7	10·06	11·01	11·08	12·02	12·10	13·05	14·00
8	12·00	12·08	13·04	14·00	14·08	15·04	16·00
9	13·06	14·03	15·00	15·09	16·06	17·03	18·00
10	15·00	15·10	16·08	17·00	18·04	19·02	20·00
11	16·06	17·05	18·04	19·02	20·02	21·01	22·00
12	18·00	19·00	20·00	21·00	22·00	23·00	24·00
13	19·06	20·07	21·08	22·09	23·10	24·11	26·00
14	21·00	22·02	23·04	24·06	25·08	26·10	28·00
15	22·06	23·09	25·00	26·02	27·06	28·09	30·00
16	24·00	25·04	26·08	28·00	29·04	30·08	32·00
17	25·06	26·11	28·04	29·09	31·02	32·07	34·00
18	27·00	28·06	30·00	31·06	33·00	34·06	36·00
19	28·06	30·01	31·08	33·02	34·10	36·05	38·00
20	30·00	31·08	33·04	35·00	36·08	38·04	40·00
21	31·06	33·03	35·00	36·09	38·06	40·03	42·00
22	33·00	34·10	36·08	38·00	40·04	42·02	44·00
23	34·06	36·05	38·04	40·03	42·02	44·01	46·00
24	36·00	38·00	40·00	42·00	44·00	46·00	48·00
25	37·06	39·07	41·08	43·09	45·10	47·11	50·00
26	39·00	41·02	43·04	45·06	47·08	49·10	52·00
27	40·06	42·09	45·00	47·03	49·06	51·09	54·00
28	42·00	44·04	46·08	49·00	51·04	53·08	56·00
29	43·06	45·11	48·04	50·09	53·02	55·07	58·00
30	45·00	47·06	50·00	52·00	55·00	57·06	60·00

. The width is in the margin—length at the head.

TABLE III.

PLANK MEASURE.

EXPLANATION.

The following tables show at one view, the number of feet, broad measure, contained in any ship, or other plank, from 24 to 52 feet in length, and from $1\frac{3}{4}$ inches in thickness to 4, varying from $\frac{1}{4}$ to the $\frac{1}{2}$ an inch, and from 10 inches to 28th in width.

The length of any plank will be found in the left-hand column of the table, and the width and thickness at the head of the page.

To find the number of feet which any plank will give, take the length in the left-hand column of the table, and the width and thickness at the top of the page—trace the two lines until they meet, and you will have the amount sought for.

For Example—a plank 47 feet in length, $2\frac{1}{2}$ inches thick, by 23 inches in width, will give 225 feet, the required sum. If the plank exceeds in length any provision which is made in these tables, its contents would be shown by taking twice what is given for half its length; and, for a lesser length, half what is shown for twice its length. In all cases, in these computations, the smaller fractions of a foot are omitted, while the larger ones are reckoned a foot: this is sufficiently correct for all practical purposes.

PLANK MEASURE.

L. Ft.	1½ by 10	1½ by 11	1½ by 12	1½ by 13	1½ by 14	1½ by 15	1½ by 16	1½ by 17	1½ by 18
24	35	39	42	45	49	52	56	59	63
25	36	40	44	47	51	55	59	62	66
26	38	42	45	49	53	57	61	64	68
27	39	43	47	51	55	59	63	67	71
28	41	45	49	53	57	61	65	69	73
29	42	47	51	55	59	63	68	72	76
30	43	48	52	57	61	65	70	74	79
31	45	50	54	59	63	68	72	77	81
32	47	51	56	61	65	70	75	79	84
33	48	53	58	63	67	72	77	82	87
34	49	55	59	64	69	74	79	84	89
35	51	56	61	66	71	76	82	87	92
36	52	58	63	68	73	79	84	89	94
37	54	59	65	70	75	81	86	92	97
38	55	61	66	72	77	83	89	94	100
39	57	63	68	74	80	85	91	97	102
40	58	64	70	76	82	87	93	99	105
41	60	67	72	78	84	90	96	102	108
42	61	69	73	80	86	92	98	104	110
43	62	71	75	82	88	94	100	108	113
44	64	73	77	83	90	96	103	109	115
45	65	74	79	85	92	98	105	112	118
46	67	76	80	87	94	101	107	114	121
47	68	78	82	89	96	103	110	117	123
48	70	79	84	91	98	105	112	119	126
48	71	80	86	93	100	107	114	121	129
50	73	82	88	94	102	109	117	124	131
51	74	83	89	97	104	112	119	126	134
52	76	84	91	99	106	114	121	129	136

PLANK MEASURE.

L. Ft.	1½ by 19	1½ by 20	1½ by 21	1½ by 22	1½ by 23	1½ by 24	1½ by 25	1½ by 26	1½ by 27
24	66	70	74	77	81	84	88	91	94
25	69	73	77	80	84	87	91	95	98
26	72	76	80	83	87	91	95	99	102
27	74	79	83	87	91	94	98	102	106
28	77	82	86	90	94	98	102	106	110
29	80	85	89	93	97	101	106	110	114
30	83	87	92	96	101	105	109	114	118
31	85	90	95	99	104	108	113	118	122
32	88	93	98	103	107	112	117	121	126
33	91	96	101	106	111	115	120	125	130
34	93	99	104	109	114	119	124	129	134
35	95	102	107	112	117	122	128	133	138
36	98	105	110	115	121	126	131	136	142
37	101	108	114	119	124	129	135	140	146
38	104	111	117	122	127	133	138	144	150
39	107	114	120	125	131	136	142	148	154
40	109	117	123	128	134	140	146	152	158
41	112	120	126	132	137	143	149	155	162
42	115	122	129	135	141	147	153	159	166
43	118	125	132	138	144	150	156	163	170
44	121	128	135	141	147	154	160	167	174
45	123	131	138	144	151	157	164	171	178
46	126	134	141	148	154	161	167	174	180
47	129	137	144	151	158	164	171	178	184
48	132	140	147	154	161	168	174	182	188
49	134	143	150	157	164	171	178	186	192
50	136	146	153	160	168	175	182	190	196
51	139	149	156	164	171	178	185	193	200
52	141	152	159	167	174	182	189	197	204

PLANK MEASURE.

L. Ft.	2 by 12	2 by 13	2 by 14	2 by 15	2 by 16	2 by 17	2 by 18	2 by 19	2 by 20
24	48	52	56	60	64	68	72	76	80
25	50	54	58	62	67	71	75	79	83
26	52	56	61	65	69	74	78	82	87
27	54	59	63	67	72	76	81	85	90
28	56	61	65	70	75	77	84	89	93
29	58	63	68	72	77	82	87	92	97
30	60	65	70	75	80	85	90	95	100
31	62	67	72	77	83	88	93	98	103
32	64	69	75	80	85	91	96	101	107
33	66	71	77	82	88	93	99	104	110
34	68	74	79	85	91	96	102	108	113
35	70	76	82	87	93	99	105	111	117
36	72	78	84	90	96	102	108	114	120
37	74	80	86	92	99	105	111	117	123
38	76	82	89	95	101	108	114	120	127
39	78	84	91	97	104	110	117	123	130
40	80	87	93	100	107	113	120	127	133
41	82	89	96	102	109	116	123	130	137
42	84	91	98	105	112	119	126	133	140
43	86	93	100	107	115	122	129	136	143
44	88	95	103	110	117	125	132	139	147
45	90	97	105	112	120	127	135	142	150
46	92	99	107	115	123	130	138	146	153
47	94	102	110	117	125	133	141	149	157
48	96	104	112	120	128	136	144	152	160
49	98	106	114	122	131	139	147	155	163
50	100	108	117	125	133	142	150	158	167
51	102	110	119	127	136	144	153	161	170
52	104	112	121	130	139	147	156	165	173

PLANK MEASURE.

L. Ft.	² by 21	² by 22	² by 23	² by 24	² by 25	² by 26	² by 27	² by 28	² by 10
24	84	88	92	96	100	104	108	112	45
25	87	92	96	100	104	108	112	117	47
26	91	95	100	104	108	113	117	121	49
27	94	99	103	108	112	117	121	126	51
28	98	103	107	112	117	121	126	131	52
29	101	106	111	116	121	126	130	139	54
30	105	110	115	120	125	130	135	140	56
31	108	114	119	124	129	134	139	145	58
32	112	117	123	128	133	139	144	149	60
33	115	121	126	132	137	143	148	154	62
34	119	125	130	136	141	147	153	159	64
35	122	128	134	140	146	152	157	163	66
36	126	132	138	144	150	156	162	168	67
37	129	136	142	148	154	160	166	173	69
38	133	139	146	152	158	165	171	177	71
39	136	143	149	156	162	169	175	182	73
40	140	147	153	160	167	173	180	187	75
41	143	150	157	164	171	178	184	191	77
42	147	154	161	168	175	182	189	196	79
43	150	158	165	172	179	186	193	201	81
44	154	161	169	176	183	191	198	205	83
45	157	165	172	180	187	195	202	210	84
46	160	169	176	184	192	199	207	215	86
47	164	172	180	188	196	204	211	219	88
48	168	176	184	192	200	208	216	224	90
49	171	180	188	196	204	212	220	229	92
50	175	183	192	200	208	217	225	233	94
51	178	187	195	204	213	221	229	238	96
52	182	190	199	208	217	225	234	243	98

PLANK MEASURE.

1 $\frac{1}{2}$ Ft.	2 $\frac{1}{2}$ by 11	3 $\frac{1}{2}$ by 12	4 $\frac{1}{2}$ by 13	5 $\frac{1}{2}$ by 14	6 $\frac{1}{2}$ by 15	7 $\frac{1}{2}$ by 16	8 $\frac{1}{2}$ by 17	9 $\frac{1}{2}$ by 18	10 $\frac{1}{2}$ by 19
24	49	54	58	64	68	72	77	80	86
25	52	56	61	66	70	75	80	84	89
26	54	59	63	68	73	78	83	88	93
27	56	61	66	71	76	81	86	91	96
28	58	63	68	73	79	84	89	94	100
29	60	65	71	76	82	87	92	98	103
30	62	68	73	79	84	90	96	101	107
31	64	70	76	81	87	93	99	105	110
32	66	72	78	84	90	96	101	108	114
33	68	74	80	86	93	99	104	111	118
34	70	77	83	89	96	102	109	115	121
35	72	79	85	92	98	105	112	118	125
36	74	81	88	94	101	108	115	121	128
37	76	83	90	97	104	111	118	125	132
38	78	86	92	100	107	114	121	128	135
39	80	88	95	102	110	117	124	131	139
40	82	90	97	105	112	120	128	135	142
41	85	92	100	107	115	123	131	138	146
42	87	95	102	110	118	126	134	142	150
43	89	97	105	113	122	129	137	145	153
44	91	99	107	115	125	132	140	148	157
45	93	102	110	118	127	135	144	152	160
46	95	104	112	121	130	138	147	155	164
47	97	106	115	123	133	141	150	159	167
48	99	108	117	126	136	144	153	162	171
49	101	111	119	128	139	147	156	165	175
50	103	113	122	131	141	150	159	169	178
51	105	115	124	134	144	153	163	172	182
52	107	117	127	136	146	156	166	175	185

PLANK MEASURE.

L.	2½ by 26	2½ by 21	2½ by 22	2½ by 23	2½ by 24	2½ by 25	2½ by 26	2½ by 27	2½ by 12
24	90	95	99	104	108	113	117	121	60
25	94	98	103	108	112	117	122	127	62
26	97	102	107	112	117	122	127	132	65
27	101	106	111	116	121	127	132	137	67
28	105	110	115	121	126	131	136	142	70
29	109	114	119	125	130	136	141	147	72
30	112	118	123	129	135	141	146	152	75
31	116	122	127	134	139	145	151	157	77
32	120	126	131	138	144	150	156	162	80
33	124	130	135	142	148	155	161	167	82
34	127	134	140	147	153	159	166	172	85
35	131	138	144	151	157	164	171	177	87
36	135	142	148	155	162	169	175	182	90
37	139	146	152	160	166	173	180	187	92
38	143	150	156	164	171	178	185	192	95
39	146	154	160	168	175	183	190	197	97
40	150	158	164	172	180	187	195	202	100
41	154	162	168	177	184	192	200	207	102
42	158	166	172	181	189	197	205	213	105
43	162	170	177	185	193	201	210	218	107
44	165	174	181	190	198	206	215	223	110
45	169	178	185	194	202	211	220	228	112
46	173	182	189	198	207	215	224	232	115
47	176	186	193	202	211	220	229	238	117
48	180	189	197	207	216	225	234	243	120
49	183	193	201	211	220	229	239	248	122
50	187	197	205	215	225	234	244	253	125
51	191	201	210	220	229	239	249	258	127
52	195	205	214	224	234	244	254	263	130

PLANK MEASURE.

L. Ft.	2½ by 13	2½ by 14	2½ by 15	2½ by 16	2½ by 17	2½ by 18	2½ by 19	2½ by 20	2½ by 21
24	65	70	75	80	85	90	95	100	105
25	68	73	78	83	89	94	99	104	109
26	70	76	81	87	92	97	103	108	114
27	73	79	84	90	96	101	107	112	118
28	76	82	87	93	99	105	111	117	122
29	79	85	91	97	103	109	115	121	127
30	81	87	94	100	106	112	119	125	131
31	84	90	97	103	110	116	123	129	136
32	86	93	100	107	113	120	127	133	140
33	89	96	103	110	117	124	131	137	144
34	92	99	106	113	120	127	135	142	149
35	95	102	109	117	124	131	139	146	153
36	97	105	113	120	127	135	143	150	157
37	100	108	116	123	131	139	147	154	162
38	103	111	119	127	135	142	150	158	166
39	106	114	122	130	138	146	154	162	171
40	108	117	125	133	142	150	158	168	175
41	111	120	128	137	145	154	162	171	179
42	114	122	131	140	149	157	166	175	184
43	116	125	134	143	152	161	170	179	188
44	119	128	137	147	156	165	174	183	192
45	122	131	140	150	159	169	178	187	197
46	125	134	144	153	163	172	182	192	201
47	127	137	147	157	166	176	186	196	206
48	130	140	150	160	170	180	190	200	210
49	133	143	153	163	174	184	194	204	215
50	135	146	156	167	177	187	198	208	219
51	138	149	159	170	181	191	202	212	223
52	141	152	162	173	185	195	206	216	227

PLANK MEASURE.

L.	2½	2½	2½	2½	2½	2½	2½	3	3
Fe.	by 2	by 2	by 24	by 25	by 26	by 27	by 28	by 12	by 13
2	10	15	20	125	130	135	140	72	78
2	115	20	125	130	135	141	146	75	81
2	19	25	130	135	141	146	152	78	84
27	24	29	135	141	146	152	157	81	88
2	28	34	140	146	152	158	163	84	91
29	133	39	145	151	157	163	169	87	94
30	37	44	150	156	163	169	175	90	98
31	42	49	155	161	168	175	181	93	101
32	47	53	160	167	173	180	187	96	104
33	51	58	165	172	179	186	192	99	107
34	56	63	170	177	184	191	198	102	111
35	60	68	175	182	190	197	204	105	114
36	165	72	180	187	195	203	210	108	117
37	73	77	185	193	200	208	216	111	120
38	78	82	190	198	206	214	222	114	123
39	79	87	195	203	211	220	227	117	127
40	83	92	200	208	217	225	233	120	130
41	88	96	205	214	222	231	239	123	133
42	92	101	210	219	228	237	245	126	136
43	97	106	215	224	233	242	251	129	140
44	102	111	220	229	238	248	256	132	143
45	106	116	225	234	244	253	262	135	146
46	111	120	230	240	249	259	268	138	149
47	215	25	235	245	254	265	274	141	152
48	220	130	240	250	260	270	280	144	156
49	25	135	245	255	265	276	286	147	159
50	29	140	250	260	271	282	292	150	162
51	34	144	255	266	276	289	298	153	165
52	388	249	260	270	282	293	303	156	169

PLANK MEASURE.

L. Ft.	3 by 14	3 by 15	3 by 16	3 by 17	3 by 18	3 by 19	3 by 20	3 by 21	3 by 22
24	84	90	96	102	108	114	120	126	132
25	87	94	100	106	112	119	125	131	138
26	91	97	104	110	117	123	130	136	143
27	94	101	108	115	121	128	135	142	149
28	98	105	112	119	126	133	140	147	154
29	101	109	116	123	130	138	145	152	160
30	105	112	120	127	135	142	150	157	165
31	108	116	124	132	139	147	155	163	171
32	112	120	128	136	144	151	160	168	176
33	115	124	132	140	149	156	165	173	182
34	119	127	136	144	153	161	170	178	187
35	122	131	140	149	157	166	175	184	193
36	126	135	144	153	162	170	180	189	198
37	129	139	148	157	166	175	185	194	204
38	133	142	152	161	171	180	190	199	209
39	136	146	156	166	175	185	195	204	215
40	140	150	160	170	180	189	200	210	220
41	143	154	164	174	184	194	205	215	226
42	147	157	168	178	189	199	210	220	231
43	150	161	172	183	193	204	215	225	236
44	154	165	176	187	198	208	220	231	242
45	157	169	180	191	202	213	225	236	247
46	161	172	184	195	207	218	230	241	253
47	164	176	188	200	211	223	235	247	258
48	168	180	192	204	216	227	240	252	264
49	171	184	196	208	220	232	245	257	269
50	175	187	200	212	225	237	250	262	275
51	178	191	204	217	229	242	255	268	280
52	181	195	208	221	234	246	260	274	286

PLANK MEASURE.

L.	3	3	3	3	3	3	3	3	3
Ft.	by 2	by 24	by 25	by 26	by 27	by 28	by 29	by 30	by 15
24	133	44	150	156	162	168	174	180	105
25	144	45	156	162	169	175	181	187	109
26	149	46	162	169	175	182	188	195	114
27	155	47	169	175	182	189	196	202	118
28	161	48	175	182	189	196	203	210	122
29	167	49	181	188	196	203	210	217	127
30	172	50	187	195	202	210	217	225	131
31	178	51	194	201	209	217	225	232	136
32	184	52	200	208	216	224	232	240	140
33	190	53	206	214	223	231	239	247	144
34	195	54	212	221	229	238	246	255	149
35	201	55	219	227	236	245	254	262	153
36	207	56	225	234	243	252	261	270	157
37	213	57	231	240	250	259	268	277	162
38	218	58	237	247	256	266	275	285	166
39	224	59	244	253	263	273	283	292	171
40	230	60	250	260	270	280	290	300	175
41	236	61	256	266	277	287	297	307	179
42	241	62	262	273	283	294	304	315	184
43	247	63	269	279	290	301	312	322	188
44	253	64	275	286	297	308	319	330	192
45	259	65	281	292	304	315	326	337	197
46	264	66	287	299	310	322	333	345	201
47	270	67	294	305	317	329	341	352	206
48	276	68	300	312	324	336	348	360	210
49	282	69	306	318	331	343	355	367	214
50	287	70	312	325	337	350	362	375	218
51	293	71	319	331	344	357	370	382	223
52	299	72	325	338	351	364	377	390	228

PLANK MEASURE.

L. Ft.	$\frac{3}{4}$ by 16	$\frac{3}{4}$ by 17	$\frac{3}{4}$ by 18	$\frac{3}{4}$ by 19	$\frac{3}{4}$ by 20	$\frac{3}{4}$ by 21	$\frac{3}{4}$ by 22	$\frac{3}{4}$ by 23	$\frac{3}{4}$ by 24
24	112	119	126	133	140	147	154	161	168
25	117	124	131	139	146	153	160	168	175
26	121	129	137	144	152	159	167	174	182
27	126	134	142	150	157	165	173	181	189
28	131	139	147	155	163	172	180	188	196
29	135	144	152	161	169	178	186	195	203
30	140	149	157	167	175	184	192	201	210
31	145	154	163	172	181	190	199	208	217
32	149	159	168	177	187	196	205	215	224
33	154	164	173	183	192	202	212	221	231
34	159	169	178	188	198	208	218	228	238
35	163	174	184	194	204	214	225	235	245
36	168	178	189	200	210	221	231	241	252
37	173	183	194	205	216	227	237	248	259
38	177	188	199	211	222	233	244	255	266
39	182	193	205	216	227	239	250	262	273
40	186	198	210	222	233	245	257	268	280
41	191	203	215	227	239	251	263	275	287
42	196	208	220	233	245	257	269	282	294
43	200	213	226	238	251	263	276	288	301
44	205	218	231	244	257	269	282	295	308
45	210	223	236	249	262	275	289	302	315
46	214	228	242	255	268	281	295	309	322
47	219	233	247	260	274	287	302	315	329
48	224	238	252	266	280	294	308	322	336
49	228	243	257	271	286	300	314	329	343
50	233	248	262	277	292	306	321	336	350
51	238	253	268	282	296	312	327	342	357
52	242	258	273	288	303	318	334	349	364

PLANK MEASURE.

L. ft.	$\frac{3\frac{1}{2}}$ by 25	$\frac{3\frac{1}{2}}$ by 26	$\frac{3\frac{1}{2}}$ by 27	$\frac{3\frac{1}{2}}$ by 28	$\frac{3\frac{1}{2}}$ by 29	$\frac{3\frac{1}{2}}$ by 30	4 by 15	4 by 16	4 by 17
24	175	182	189	196	203	210	120	28	136
25	182	190	197	204	211	219	125	133	142
26	190	197	205	212	220	227	130	139	147
27	197	205	213	220	228	236	135	144	153
28	204	212	220	229	237	245	140	149	159
29	211	220	228	237	245	254	145	155	164
30	219	227	236	245	254	262	150	160	170
31	226	235	244	253	262	271	155	165	176
32	233	243	252	261	271	280	160	171	181
33	241	250	260	269	279	289	165	176	187
34	248	258	268	278	287	297	170	181	193
35	255	265	276	286	296	306	175	187	198
36	262	273	283	294	304	315	180	192	204
37	269	281	291	302	313	324	185	197	210
38	277	288	299	310	321	332	190	203	215
39	284	296	307	318	330	341	195	208	221
40	292	303	315	327	338	350	200	213	227
41	299	311	323	335	346	359	205	219	232
42	306	318	331	343	355	367	210	224	238
43	313	326	339	351	363	376	215	229	244
44	320	333	346	359	372	385	220	235	249
45	328	341	354	367	381	394	225	240	255
46	335	349	362	376	389	402	230	245	261
47	342	356	370	384	397	411	235	251	266
48	350	364	378	392	406	420	240	256	272
49	356	372	386	400	414	429	245	261	278
50	365	379	394	408	423	437	250	267	283
51	372	387	402	416	431	446	255	272	289
52	379	394	409	424	440	454	260	278	294

PLANK MEASURE.

L. Ft.	4 by 13	4 by 14	4 by 15	4 by 16	4 by 17	4 by 18	4 by 19	4 by 20	4 by 21
24	144	152	160	168	176	184	192	200	208
25	150	158	167	175	183	192	200	208	217
26	156	165	173	182	191	199	208	217	225
27	162	171	180	189	198	207	216	225	234
28	168	177	187	196	205	215	224	233	243
29	174	184	193	203	213	222	232	242	251
30	180	190	200	210	220	230	240	250	260
31	186	196	207	217	227	237	248	258	269
32	192	203	213	224	235	245	256	267	277
33	198	209	220	231	242	253	264	275	286
34	204	215	227	238	249	261	272	283	295
35	210	222	233	245	257	268	280	291	303
36	216	228	240	252	264	276	288	300	312
37	222	234	247	259	271	284	296	308	321
38	228	241	253	266	279	291	304	317	329
39	234	247	260	273	286	299	312	325	338
40	240	253	267	280	293	307	320	333	347
41	246	260	273	287	301	314	328	342	355
42	252	266	280	294	308	322	336	350	364
43	258	272	287	301	315	330	344	358	373
44	264	279	293	308	322	337	352	367	381
45	270	285	300	315	330	345	360	375	390
46	276	291	307	322	337	353	368	383	399
47	282	298	313	329	345	360	376	392	407
48	288	304	320	336	352	368	384	400	416
49	294	310	327	343	359	376	392	408	425
50	300	317	333	350	367	383	400	417	433
51	306	323	340	357	374	391	408	425	442
52	312	329	346	364	381	399	416	434	450

TABLE IV.

HEWED TIMBER.

EXPLANATION.

THE length of any stick of hewed or sawed timber will be found in the left-hand column of the table; the side dimensions at the head of the page, and the cubical or solid contents, may be found directly under the side dimensions, and at the right of the length. Thus, a stick of timber (page 37) measuring 10 by 12 inches, side dimensions, and 30 feet in length, contains 25 cubic feet of timber. So, also, a stick 20 by 22 inches, side dimensions, and 35 feet long, contains 107 cubic feet.

If a piece of timber should exceed, in length, any provision made in these tables, its contents may be found by taking twice what is shown for half its length, &c. Thus, a stick of timber 64 feet long, would contain twice what is shown in the table for one 32 feet long, and so on.

When a stick of timber is larger at one end than at the other, the mean diameter, or square, must be sought for, and its contents computed from it.

In these computations, the decimal parts of a foot are omitted, when half or less than half a foot; and when more, they are reckoned as a whole foot. This will be sufficiently correct for all ordinary purposes.

CUBICAL CONTENTS OF SQUARE TIMBER.

L.	10	10	10	10	11	11	11	11	12
Ft.	by 10	by 11	by 12	by 13	by 11	by 12	by 13	by 14	by 12
20	14	15	17	18	17	18	20	21	20
21	15	16	17	19	18	19	21	22	21
22	15	17	18	20	18	20	22	23	22
23	16	18	19	21	19	21	23	25	23
24	17	18	20	22	20	22	24	26	24
25	17	19	21	23	21	23	25	27	25
26	18	20	22	23	22	24	26	28	26
27	19	21	22	24	23	25	27	29	27
28	19	21	23	25	23	26	28	30	28
29	20	22	24	26	24	27	29	31	29
30	21	23	25	27	25	28	30	32	30
31	21	24	26	28	26	28	31	33	31
32	22	24	27	29	27	29	32	34	32
33	23	25	28	30	28	30	33	35	33
34	24	26	28	31	29	31	34	36	34
35	24	27	29	32	29	32	35	37	35
36	25	27	30	32	30	33	36	38	36
37	26	28	31	33	31	34	37	40	37
38	26	29	32	34	32	35	38	41	38
39	27	30	32	35	33	36	39	42	39
40	28	31	33	36	34	37	40	43	40
41	28	31	34	37	34	38	41	44	41
42	29	32	35	38	35	38	42	45	42
43	30	33	36	39	36	39	43	46	43
44	31	34	37	40	37	40	44	47	44
45	31	34	37	41	38	41	45	48	45
46	32	35	38	41	39	42	46	49	46
47	33	36	39	42	39	43	47	50	47
48	33	37	40	43	40	44	48	51	48

CUBICAL CONTENTS OF SQUARE TIMBER.

L. Ft.	12 by 13	12 by 14	12 by 15	13 by 13	13 by 14	13 by 15	13 by 16	14 by 14	14 by 15
20	22	23	25	23	25	27	29	27	29
21	23	24	26	25	27	28	30	29	31
22	24	25	27	26	28	30	32	30	32
23	25	27	29	27	29	31	33	31	34
24	26	28	30	28	30	32	35	33	35
25	27	29	31	29	32	34	36	34	36
26	28	30	32	30	33	35	38	35	38
27	29	31	34	32	34	37	39	37	39
28	30	32	35	33	35	38	40	38	41
29	31	34	36	34	37	39	42	39	42
30	32	35	37	35	38	41	43	41	44
31	34	36	39	36	39	42	45	42	45
32	35	37	40	38	40	43	46	44	47
33	36	38	41	39	42	45	48	45	48
34	37	40	42	40	43	46	49	46	50
35	38	41	44	41	44	47	51	48	51
36	39	42	45	42	45	49	52	49	52
37	40	43	46	43	47	50	53	50	54
38	41	44	47	45	48	51	55	52	55
39	42	45	49	46	49	53	56	53	57
40	43	47	50	47	51	54	58	54	58
41	44	48	51	48	52	55	59	56	60
42	45	49	52	49	53	57	61	57	61
43	46	50	54	50	54	58	62	58	63
44	48	51	55	52	56	60	64	60	64
45	49	52	56	53	57	61	65	61	66
46	50	54	57	54	58	62	66	63	67
47	51	55	58	55	59	64	68	64	69
48	52	56	60	56	61	65	69	65	70

CUBICAL CONTENTS OF SQUARE TIMBER.

L. Ft.	14 by 16	14 by 17	15 by 15	15 by 16	15 by 17	15 by 18	16 by 16	16 by 17	16 by 18
20	31	33	31	33	35	37	36	38	40
21	33	35	33	35	37	39	37	40	42
22	34	36	34	37	39	41	39	42	44
23	36	38	36	38	41	43	41	43	46
24	37	40	37	40	42	45	43	45	48
25	39	41	39	42	44	47	44	47	50
26	40	43	41	43	46	49	46	49	52
27	42	45	42	45	48	51	48	51	54
28	44	46	44	47	50	52	50	53	56
29	45	48	45	48	51	54	52	55	58
30	47	50	47	50	53	56	53	57	60
31	48	51	48	52	55	58	55	59	62
32	50	53	50	53	57	60	57	60	64
33	51	55	52	55	58	62	59	62	66
34	53	56	53	57	60	64	60	64	68
35	54	58	55	58	62	66	62	66	70
36	56	59	56	60	64	67	64	68	72
37	58	61	58	62	65	69	66	70	74
38	59	63	59	63	67	71	68	72	76
39	61	64	61	65	69	73	69	74	78
40	62	66	62	67	71	75	71	76	80
41	64	68	64	68	73	77	73	77	82
42	65	69	66	70	74	79	75	79	84
43	67	71	67	72	76	81	76	81	86
44	68	73	69	73	78	82	78	83	88
45	70	74	70	75	80	84	80	85	90
46	72	76	72	77	81	86	82	87	92
47	73	78	73	78	83	88	84	89	94
48	75	79	74	80	85	90	85	91	96

CUBICAL CONTENTS OF SQUARE TIMBER.

L. Ft.	16 by 19	17 by 17	17 by 18	17 by 19	17 by 20	18 by 18	18 by 19	18 by 20	18 by 21
20	42	40	42	43	47	45	47	50	52
21	44	42	45	47	50	47	50	52	55
22	46	44	47	49	52	49	52	55	58
23	49	46	49	52	54	52	55	57	60
24	51	48	51	54	57	54	57	60	63
25	53	50	53	56	59	56	59	62	66
26	55	52	55	58	61	58	62	65	68
27	57	54	57	61	64	61	64	67	71
28	59	56	59	63	66	63	66	70	73
29	61	58	62	65	68	65	69	72	76
30	63	60	64	67	71	67	71	75	79
31	65	62	66	70	73	70	74	77	81
32	68	64	68	72	76	72	76	80	84
33	70	66	70	74	78	74	78	82	87
34	72	68	72	76	80	76	81	85	89
35	74	70	74	79	83	79	83	87	92
36	76	72	76	81	85	81	85	90	94
37	78	74	79	83	87	83	88	92	97
38	80	76	81	85	90	85	90	95	100
39	82	78	83	88	92	88	93	97	102
40	84	80	85	90	94	90	95	100	105
41	87	82	87	92	97	92	97	102	108
42	89	84	89	94	99	94	100	105	110
43	91	86	91	97	101	97	102	107	113
44	93	88	93	99	103	99	104	110	115
45	95	90	96	101	106	101	107	112	118
46	97	92	98	104	109	104	109	115	121
47	99	94	100	105	111	106	112	117	123
48	101	96	102	108	113	108	114	120	126

CUBICAL CONTENTS OF SQUARE TIMBER.

L. Ft.	19 by 19	19 by 20	19 by 21	19 by 22	20 by 23	20 by 24	20 by 25	20 by 26	21 by 27
20	50	53	55	58	56	58	61	63	61
21	53	55	58	61	58	61	64	67	64
22	55	58	61	64	61	64	67	70	67
23	58	61	64	67	64	67	70	73	70
24	60	63	66	70	67	70	73	76	73
25	63	66	69	73	69	73	76	78	77
26	65	69	72	76	72	76	79	83	80
27	68	71	75	78	75	79	82	86	83
28	70	74	78	81	78	82	86	89	86
29	73	76	80	84	81	85	89	92	89
30	75	79	83	87	83	87	92	95	92
31	78	82	86	90	86	90	95	98	95
32	80	84	89	93	89	93	98	101	98
33	83	87	91	96	92	96	101	104	101
34	85	90	94	99	94	99	104	108	104
35	88	92	97	102	97	102	107	111	107
36	90	95	100	104	100	105	110	115	110
37	93	98	103	107	103	108	113	118	113
38	95	100	105	110	106	111	116	121	116
39	98	103	108	113	108	114	119	124	119
40	100	106	111	116	111	117	122	127	122
41	103	108	114	119	114	120	125	130	126
42	105	111	116	122	117	122	128	134	129
43	108	113	119	125	119	125	132	137	132
44	110	116	122	128	122	128	135	140	135
45	113	119	125	131	125	131	138	143	138
46	115	121	128	134	128	134	140	146	141
47	118	124	130	136	131	137	144	150	144
48	120	127	133	139	133	140	147	153	147

CUBICAL CONTENTS OF SQUARE TIMBER.

L. Ft.	21 by 22	21 by 23	21 by 24	22 by 22	22 by 23	22 by 24	23 by 23	23 by 24
20	64	67	70	67	70	73	76	76
21	67	70	73	70	73	77	80	80
22	71	73	77	73	77	80	84	84
23	74	77	80	77	80	84	87	88
24	77	80	84	80	84	88	91	92
25	80	83	87	83	87	91	95	95
26	83	87	91	87	91	95	99	99
27	87	90	94	90	94	99	103	103
28	90	93	98	93	98	102	106	107
29	93	97	101	97	101	106	110	111
30	96	100	105	100	105	110	114	115
31	99	103	108	103	108	113	118	118
32	103	107	112	107	112	117	122	122
33	106	110	115	110	115	121	126	126
34	109	114	119	114	119	124	129	130
35	112	117	122	117	122	128	133	134
36	115	120	126	121	126	132	137	138
37	119	124	129	124	130	135	141	141
38	122	127	133	127	133	139	145	145
39	125	130	136	131	137	143	148	149
40	128	134	140	134	140	146	152	153
41	131	137	143	137	144	150	156	157
42	134	140	147	141	147	154	160	161
43	138	144	150	144	151	157	164	164
44	141	147	154	147	154	161	168	168
45	144	150	157	151	158	165	171	172
46	148	154	161	154	161	168	175	176
47	151	157	164	157	164	172	179	180
48	154	161	168	161	168	176	183	184

CUBICAL CONTENTS OF SQUARE TIMBER.

L.	23	24	25	26	27	28	29	30	31
Ft.	by 25	by 26	by 27	by 28	by 29	by 30	by 31	by 32	by 33
20	79	80	81	82	83	84	85	86	87
21	83	84	85	86	87	88	89	90	91
22	87	88	89	90	91	92	93	94	95
23	91	92	93	94	95	96	97	98	99
24	95	96	97	98	99	100	101	102	103
25	99	100	101	102	103	104	105	106	107
26	103	104	105	106	107	108	109	110	111
27	107	108	109	110	111	112	113	114	115
28	111	112	113	114	115	116	117	118	119
29	115	116	117	118	119	120	121	122	123
30	119	120	121	122	123	124	125	126	127
31	123	124	125	126	127	128	129	130	131
32	127	128	129	130	131	132	133	134	135
33	131	132	133	134	135	136	137	138	139
34	135	136	137	138	139	140	141	142	143
35	139	140	141	142	143	144	145	146	147
36	143	144	145	146	147	148	149	150	151
37	147	148	149	150	151	152	153	154	155
38	151	152	153	154	155	156	157	158	159
39	155	156	157	158	159	160	161	162	163
40	159	160	161	162	163	164	165	166	167
41	163	164	165	166	167	168	169	170	171
42	167	168	169	170	171	172	173	174	175
43	171	172	173	174	175	176	177	178	179
44	175	176	177	178	179	180	181	182	183
45	179	180	181	182	183	184	185	186	187
46	183	184	185	186	187	188	189	190	191
47	187	188	189	190	191	192	193	194	195
48	191	192	193	194	195	196	197	198	199

TABLE V.

EXPLANATION.—The length of any log, in feet, will be found in the left-hand column of the table, and the *average diameter*, in inches, may be found at the head of the page. Thus, a log, 19 inches diameter, and 38 feet long, contains 43 feet and six-twelfths, cubic measurement.

REMARKS.

These tables have been computed from the following **RULE**.—Add together the two extreme diameters, and divide by two for the mean diameter. Subtract one-third for the side of the square the log will make when hewn. Square the side thus obtained, and multiply the product by the length of the log in feet, and divide the last product by 144, (or by 12 twice,) the quotient will be the cubical contents in feet, and twelfths of a foot.

This rule, after much consultation with both buyer and seller of lumber, is, I believe, more nearly the truth than any other that can be made, and this is conceded by all sellers of lumber with whom I have conversed; besides, it has attained almost universal use in practice. This rule does not give quite so much as the square inscribed in a circle equal to the diameter of the log, but as trees never grow perfectly round nor straight, some waste will be experienced, and allowance ought justly to be made to the purchaser, from the mathematical accuracy of inscribing a square in a circle. The average diameter may also be taken in sections of 15 feet, or by the rule above, as the parties may agree.

As the above rule corresponds with universal practice, these tables may, with propriety, be regarded as the *Standard Tables* for reducing round timber to square, cubical measurement.

Example.—Suppose the adjoining diagram to represent a log, whose extreme diameters are 18 and 24 inches, and 45 feet long; how many cubic feet does it contain?



Length 45 feet.

OPERATION.

$18 + 24 = 42$; and $42 \div 2 = 21$ inches, average diameter.

$\frac{1}{3}$ of 21 = 7. Then, $21 - 7 = 14$, and $14^2 = 196$;

$196 \times 45 \div 144 = 61$ ft. 3 in. *Ans.*

NOTE.—The diameter multiplied by 7671 gives the side of the square contained in a circle when squared.

ROUND TIMBER REDUCED TO SQUARE TIMBER.

CUBIC MEASUREMENT.

L. Ft.	AV. Diam. 12.	AV. Diam. 13.	AV. Diam. 14.	AV. Diam. 15.	AV. Diam. 16.	AV. Diam. 17.	AV. Diam. 18.	AV. Diam. 19.
25	11.1	14.1	15.1	17.4	19.10	22.6	25.0	28.0
26	11.6	14.8	15.8	18.1	20.3	23.0	26.0	29.1
27	12.	15.2	16.3	18.9	21.5	23.11	27.0	30.2
28	12.5	15.9	16.10	19.5	22.3	24.10	28.0	31.4
29	12.10	16.4	17.5	20.2	23.0	25.9	29.0	32.5
30	13.3	16.11	18.	20.10	23.10	26.8	30.0	33.6
31	13.8	17.5	18.7	21.6	24.7	27.7	31.0	34.8
32	14.2	18.	19.2	22.3	25.5	28.3	32.0	35.9
33	14.7	18.7	19.9	22.11	26.2	29.5	33.0	36.11
34	15.	19.2	20.4	23.7	27.0	30.1	34.0	38.0
35	15.3	19.8	20.11	24.4	27.9	31.3	35.0	39.2
36	15.11	20.3	21.6	25.0	28.7	32.2	36.0	41.3
37	16.4	20.10	22.1	25.8	29.5	33.1	37.0	42.5
38	16.10	21.5	22.8	26.5	30.2	34.0	38.0	43.6
39	17.4	21.11	23.4	27.1	31.1	34.11	39.0	44.7
40	17.9	22.6	24.0	27.9	31.9	35.10	40.0	45.9
41	18.3	23.1	24.7	28.6	32.7	36.9	41.0	46.10
42	18.8	23.8	25.2	29.2	33.4	37.8	42.0	48.0
43	19.1	24.2	25.9	29.10	34.2	38.7	43.0	49.1
44	19.7	24.9	26.4	30.7	34.11	39.6	44.0	50.3
45	20.	25.4	27.0	31.3	35.9	40.5	45.0	51.4
46	20.5	25.11	27.7	31.11	36.6	41.4	46.0	52.5
47	20.11	26.5	28.2	32.8	37.4	42.3	47.0	53.7
48	21.4	27.	28.9	33.4	38.1	43.2	48.0	54.9
49	21.9	27.7	29.4	34.0	38.11	44.1	49.0	55.10
50	22.2	28.2	30.0	34.8	39.8	45.	50.0	56.0

ROUND TIMBER REDUCED TO SQUARE TIMBER.

CUBIC MEASUREMENT.

L. Ft.	Av. Diam. 23.	Av. Diam. 21.	Av. Diam. 22.	Av. Diam. 23.	Av. Diam. 24.	Av. Diam. 25.	Av. Diam. 26.	Av. Diam. 27.
26	31.8	31.0	29.1	11.9	44.5	50.2	53.2	56.3
28	32.11	35.5	10.8	13.5	46.2	52.2	55.4	58.6
27	34.2	36.9	12.2	15.1	48.0	54.2	57.5	60.9
28	35.5	38.1	13.9	16.9	49.8	56.2	59.7	63.0
29	36.8	39.6	15.4	18.5	50.2	58.2	61.8	65.3
30	38.0	40.16	16.11	20.1	52.1	60.3	63.16	67.6
31	39.3	42.2	18.5	21.9	54.0	62.3	65.11	69.9
32	40.6	43.7	20.0	23.5	55.9	64.3	68.1	72.0
33	41.9	44.11	21.7	25.1	57.0	66.3	70.2	74.3
34	43.0	46.3	23.2	26.9	59.2	68.3	72.4	76.6
35	44.4	47.8	24.8	28.5	61.1	70.3	74.5	78.9
36	45.7	49.0	26.3	30.1	62.9	72.3	76.7	81.0
37	46.16	50.4	27.16	31.9	64.0	74.3	78.8	83.3
38	47.1	51.9	29.5	33.5	66.2	75.3	80.16	85.6
39	49.4	53.1	30.11	35.1	68.0	76.3	82.11	87.9
40	50.8	54.5	32.6	36.9	69.9	78.3	85.1	90.0
41	51.11	55.16	34.1	38.5	71.0	80.3	87.2	92.3
42	53.2	57.2	35.8	40.1	73.3	82.4	89.4	94.6
43	54.5	58.6	37.2	41.9	75.0	84.4	91.5	96.9
44	55.8	59.11	38.9	43.5	77.9	86.4	93.8	99.0
45	56.11	61.3	40.4	45.1	79.6	88.4	95.8	101.3
46	58.3	62.7	41.11	46.9	81.2	90.4	97.16	103.6
47	59.6	64.0	43.5	48.5	83.0	92.4	99.11	105.9
48	60.9	65.4	45.0	50.1	84.9	94.4	102.1	108.0
49	62.0	66.8	46.7	51.9	86.0	96.4	104.3	110.3
50	63.3	68.1	48.2	53.5	88.3	98.4	106.4	112.6

ROUND TIMBER REDUCED TO SQUARE TIMBER.

CUBIC MEASUREMENT.

L. Ft.	Av. Diam. 28.	Av. Diam. 29.	Av. Diam. 30.	Av. Diam. 31.	Av. Diam. 32.	Av. Diam. 33.	Av. Diam. 34.
25	62.8	66.8	69.5	73.0	78.9	84.0	88.0
26	65.2	69.4	72.3	75.11	81.11	87.5	91.5
27	67.8	72.0	75.0	78.10	85.1	90.9	95.0
28	70.2	74.8	77.9	81.9	88.3	94.1	98.5
29	72.8	77.4	80.7	84.8	91.5	97.6	102.0
30	75.3	80.0	83.4	87.7	94.7	100.0	105.6
31	77.9	82.8	86.1	90.6	97.9	104.2	109.0
32	80.3	85.4	88.11	93.5	100.11	107.7	112.6
33	82.9	88.0	91.8	96.4	104.1	111.0	116.0
34	85.3	90.8	94.5	99.3	107.3	114.3	119.6
35	87.9	93.4	97.3	102.2	110.5	117.8	123.1
36	90.3	96.0	100.0	105.1	113.7	121.0	126.7
37	92.9	98.8	102.9	108.0	116.9	124.4	130.1
38	95.3	101.4	105.7	110.11	119.11	127.9	133.7
39	97.9	104.0	108.4	113.10	123.1	131.1	137.1
40	100.3	106.8	111.1	116.9	126.3	131.5	140.8
41	102.9	109.4	113.11	119.8	129.5	138.0	144.2
42	105.4	112.0	116.3	122.7	132.7	141.2	147.8
43	107.10	114.8	119.5	125.6	135.9	144.0	151.2
44	110.4	117.4	122.3	128.5	138.11	148.0	154.8
45	112.10	120.0	125.0	131.4	142.1	151.3	158.2
46	115.4	123.8	127.9	134.3	145.3	154.7	161.9
47	117.10	125.4	130.7	137.2	148.5	158.0	165.3
48	120.4	128.0	133.4	140.1	151.7	161.4	168.9
49	123.10	130.8	136.1	143.0	154.9	164.8	172.3
50	125.4	133.4	138.11	145.11	157.10	168.1	175.9

ROUND TIMBER REDUCED TO SQUARE TIMBER.

CUBIC MEASUREMENT.

L. Ft.	Av. Diam. 35.	Av. Diam. 36.	Av. Diam. 37.	Av. Diam. 38.	Av. Diam. 39.	Av. Diam. 40.	Av. Diam. 41.
25	95.11	100.0	108.6	112.11	121.11	131.4	141.0
26	99.9	104.6	112.10	117.5	126.10	136.7	146.8
27	103.7	108.0	117.2	121.11	131.3	141.11	152.4
28	107.5	112.0	121.6	126.5	136.7	147.1	157.1
29	111.3	116.0	125.10	130.11	141.5	152.4	163.7
30	115.1	120.0	130.3	135.6	146.4	157.7	169.3
31	118.11	124.0	134.7	140.0	151.2	162.10	174.1
32	122.9	128.0	138.11	144.6	156.1	168.1	180.6
33	126.7	132.0	143.3	149.0	160.11	173.4	186.2
34	130.5	136.0	147.7	153.6	165.10	178.7	191.9
35	134.3	140.0	151.11	158.1	170.8	183.10	197.5
36	138.1	144.0	156.3	162.7	175.7	189.1	203.1
37	141.11	148.0	160.7	167.1	180.5	194.4	208.8
38	145.9	152.0	164.11	171.7	185.4	199.7	214.4
39	149.7	156.0	169.3	176.1	190.2	204.10	220.0
40	153.5	160.0	173.7	180.8	195.1	210.1	225.7
41	157.3	164.0	177.11	185.2	199.11	215.4	231.2
42	161.1	168.0	182.4	189.8	204.10	220.7	236.1
43	164.11	172.0	186.8	194.2	209.8	225.10	242.7
44	168.9	176.0	191.0	198.8	214.7	231.1	248.2
45	172.7	180.0	195.4	203.2	219.5	236.4	253.1
46	176.5	184.0	199.8	207.9	224.4	241.7	259.6
47	180.3	188.0	204.4	212.3	229.2	246.10	265.1
48	184.1	192.0	212.8	216.9	234.1	252.1	270.9
49	187.11	196.0	217.0	221.3	239.0	257.4	276.5
50	191.9	200.0	221.4	225.9	243.10	262.7	282.0

TABLE VI.

SHOWING THE CUBICAL CONTENTS OF SPARS,
AND OTHER ROUND TIMBER.

EXPLANATION AND REMARKS.

THE length of any spar, or log, will be found in feet in the left-hand column of the table, and the *average diameter*, in *inches*, may be seen at the top of the page—advancing in size 1 inch, from 10 to 38 inches.

To find the cubic or solid contents which any spar, or log, will give, take the length in feet in the left-hand column of the table, and the diameter in inches at the top of the page—trace the two lines until they meet, and you will have the amount sought for. Thus, a spar, or log, whose average diameter is 28 inches, and 36 feet in length, contains, according to our showing, 154 cubic feet; and one 34 inches diameter and 28 feet long, 178 feet. If a spar should exceed in length any provision made in these tables, (as will often be the case,) its contents may be found by taking twice what is shown for half its length. Thus, a log 68 feet long, and 26 inches diameter, would contain twice what is shown in the table for one 34 feet long: *i. e.*, 252 feet. In these computations, the decimal parts of a foot are omitted, when half, or less than half; and when more, they are reckoned as a whole foot. This will be sufficiently correct for all ordinary purposes.

NOTE—In computing the solidity of spars, or logs, in rafts, for charging toll, about 10 per cent. from these estimates should be deducted for the sudden taper of many logs, as also for the inequality of the diameters of the same log, and the protuberances of the bark, where the average diameter is taken.

CUBICAL CONTENTS OF ROUND TIMBER.

L. ft.	Diam 10.	Diam 11.	Diam 12.	Diam 13.	Diam 14.	Diam 15.	Diam 16.	Diam 17.	Diam 18.	Diam 19.
8	4	5	6	7	8	10	11	12	14	16
9	5	6	7	8	9	11	12	14	16	18
10	5	7	8	9	10	12	14	16	18	20
11	6	7	8	10	12	13	15	17	19	22
12	6	8	9	11	13	15	17	19	21	24
13	7	9	10	12	14	16	18	20	23	26
14	7	9	11	13	15	17	19	22	25	28
15	8	10	12	14	16	18	21	23	26	30
16	9	11	12	14	17	20	22	25	28	32
17	9	11	13	16	18	21	24	27	30	33
18	10	12	14	16	19	22	25	28	32	35
19	10	13	15	17	21	23	27	30	33	37
20	11	13	16	18	21	25	28	31	35	39
21	11	14	16	19	22	26	29	33	37	41
22	12	15	17	20	23	27	31	35	39	43
23	12	16	18	21	24	28	32	36	41	45
24	13	16	19	22	26	30	34	38	42	47
25	14	17	20	23	27	31	35	39	44	49
26	14	17	20	24	28	32	36	41	46	51
27	15	18	21	25	29	33	38	42	48	53
28	15	18	22	26	30	35	39	44	49	55
29	16	19	23	27	31	36	41	45	51	57
30	16	20	24	28	32	37	42	47	53	59
31	17	20	24	29	33	38	43	48	55	61
32	17	21	25	29	34	40	45	50	57	63
33	18	22	26	30	35	41	46	52	58	65
34	19	22	27	31	36	42	48	53	60	67
35	19	23	28	32	37	43	49	55	62	69
36	20	24	28	33	39	44	50	57	64	71

CUBICAL CONTENTS OF ROUND TIMBER.

L. Ft.	Diam. 20.	Diam. 21.	Diam. 22.	Diam. 23.	Diam. 24.	Diam. 25.	Diam. 26.	Diam. 27.	Diam. 28.	Diam. 29.
8	17	19	21	23	25	27	29	32	34	37
9	20	22	24	26	28	31	33	36	38	41
10	22	24	26	29	31	34	37	40	43	46
11	24	26	29	32	35	37	41	43	47	50
12	26	29	32	34	38	41	44	47	51	55
13	28	31	34	37	41	44	48	51	56	60
14	31	34	37	40	44	48	52	55	60	64
15	33	36	40	43	47	51	55	59	64	69
16	35	38	42	46	50	55	59	63	68	73
17	37	41	45	49	53	58	63	68	73	78
18	39	43	48	52	57	61	66	72	77	82
19	41	45	50	55	60	65	70	75	81	87
20	44	48	53	58	63	68	74	79	85	91
21	46	50	55	61	66	71	77	83	90	96
22	48	53	58	64	69	75	81	87	94	101
23	50	55	61	66	72	78	85	91	98	105
24	52	58	63	69	75	82	88	95	102	111
25	54	60	66	72	79	85	92	99	107	116
26	57	63	69	75	82	89	96	103	111	120
27	59	65	71	78	85	92	99	107	115	125
28	61	67	74	81	88	95	103	111	120	129
29	63	70	77	84	91	99	107	115	124	134
30	65	72	79	86	94	102	110	119	128	138
31	68	75	82	89	98	106	114	123	132	143
32	70	77	85	92	100	109	118	127	137	148
33	72	79	87	95	104	112	121	130	141	152
34	74	82	90	98	107	116	125	135	145	157
35	76	84	93	101	110	119	129	139	149	161
36	79	86	95	104	113	123	133	143	154	166

CUBICAL CONTENTS OF ROUND TIMBER.

L. ft.	Diam 30.	Diam 31.	Diam 32.	Diam 33.	Diam 34.	Diam 35.	Diam 36.	Diam 37.	Diam 38.
8	39	42	45	48	50	53	57	60	62
9	44	47	50	53	57	60	64	67	70
10	49	52	56	59	63	67	71	75	79
11	53	57	61	65	69	73	77	82	86
12	58	62	67	71	76	80	85	90	94
13	63	68	72	77	82	87	92	97	102
14	68	73	78	83	88	94	99	105	110
15	73	78	84	89	95	100	106	112	118
16	78	83	89	95	101	107	113	119	126
17	83	89	95	101	107	114	121	127	135
18	88	94	100	106	114	120	128	134	142
19	93	99	106	112	120	127	135	142	151
20	98	105	112	118	126	134	142	149	159
21	103	111	117	124	132	140	149	157	166
22	109	116	123	130	139	147	156	164	174
23	113	121	128	136	145	154	163	172	183
24	118	127	134	143	151	160	170	179	191
25	123	131	139	149	158	167	178	187	198
26	128	137	145	154	164	174	185	194	206
27	133	142	151	160	170	180	192	202	214
28	136	147	156	166	177	187	198	209	222
29	143	153	162	172	183	194	206	217	228
30	148	158	168	177	189	200	213	224	236
31	152	163	173	182	195	207	220	232	244
32	157	169	178	188	202	214	227	239	253
33	162	174	184	194	208	220	234	247	261
34	167	179	190	200	214	227	241	254	268
35	172	182	196	205	220	234	248	261	276
36	177	190	201	212	227	240	255	269	284

TABLE VII.

LOG MEASURE.

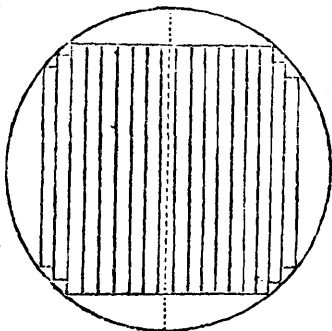
EXPLANATION.

THE length of any log, in feet, will be found in the left-hand column of the table, and the diameter at the top of the page. To find the number of feet of *square-edged* boards which a log will produce when sawed, take the length, in feet, in the left-hand column of the table, and its diameter, in inches, at the top of the page; trace the two columns of figures until they meet, and you will have the required amount.

Thus, a log which is 14 feet long, and 19 inches diameter, gives at the right of the length, and directly under the diameter, 210 feet, while one 16 feet in length, and 27 inches diameter, gives 548 feet.

REMARKS.

This table has been computed from accurately drawn diagrams for each and every diameter of logs, from 12 inches to 44, as shown in the adjoining figure, and the exact width of each board taken, after being squared by



LOGS REDUCED TO INCH BOARD MEASURE.

L. Ft.	Diam 12.	Diam 13.	Diam 14.	Diam 15.	Diam 16.	Diam 17.	Diam 18.	Diam 19.	Diam 20.
10	49	61	72	89	99	116	133	150	175
11	54	67	79	98	109	127	147	165	192
12	59	73	86	107	119	139	160	180	210
13	64	79	93	116	129	150	173	195	227
14	69	85	100	125	139	162	187	210	245
15	74	91	107	134	149	173	200	225	262
16	79	97	114	142	159	185	213	240	280
17	84	103	122	151	168	196	227	255	297
18	88	109	129	160	178	208	240	270	315
19	93	116	136	169	188	219	253	285	332
20	98	122	143	178	198	232	267	300	350
21	103	128	150	187	208	243	280	315	368
22	108	134	157	196	218	255	293	330	385
23	113	140	164	205	228	266	307	345	403
24	118	146	172	214	238	278	320	360	420
25	123	152	179	223	248	289	333	375	438

taking off the wane edge, and the contents reckoned up for every log, so that it is *mathematically certain* that the true contents are here given, and both buyer and seller of logs will unhesitatingly adopt these tables as the standard for all future contracts in the purchase of saw-logs, where strict honesty between party and party is taken into the account. In these *revised* computations I have allowed a thicker slab to be taken from

LOGS REDUCED TO INCH-BOARD MEASURE.

L. Ft.	Diam 21.	Diam 22.	Diam 23.	Diam 24.	Diam 25.	Diam 26.	Diam 27.	Diam 28.
10	190	209	235	252	287	313	342	363
11	209	230	259	278	315	344	377	400
12	228	251	283	303	344	375	411	433
13	247	272	306	328	373	403	445	473
14	266	292	330	353	401	430	479	509
15	285	313	353	379	430	460	514	545
16	304	334	377	404	459	500	548	582
17	323	355	400	429	487	531	582	618
18	342	376	424	454	516	562	616	654
19	361	397	447	480	545	594	650	692
20	380	418	470	505	573	625	684	728
21	399	439	495	530	602	656	719	764
22	418	460	518	555	631	688	753	800
23	437	480	542	571	659	719	787	837
24	456	501	566	606	688	750	821	873
25	475	522	589	631	717	781	856	910

the larger class of logs than in the former edition, which accounts for the discrepancy between the results given in these tables and those in the former editions.

The diameter is supposed to be taken at the small end, inside the bark, and in sections of 15 feet, and the fractions of an inch not taken into the measurement. This mode of measurement, which is customary, gives the buyer the advan-

LOGS REDUCED TO INCH-BOARD MEASURE.

L. Ft.	Diam 29.	Diam 30.	Diam 31.	Diam 32.	Diam 33.	Diam 34.	Diam 35.	Diam 36.
10	381	411	444	460	490	500	547	577
11	419	451	448	506	539	550	602	634
12	457	493	532	552	588	600	657	692
13	495	534	576	598	637	650	712	750
14	533	575	622	644	686	700	766	807
15	571	616	666	690	735	750	821	865
16	609	657	710	736	784	800	876	923
17	647	698	755	782	833	850	931	980
18	685	739	799	828	882	900	985	1038
19	723	780	843	874	931	950	1040	1096
20	761	821	888	920	980	1000	1095	1152
21	800	863	932	966	1029	1050	1150	1210
22	838	904	976	1012	1078	1100	1204	1268
23	876	945	1021	1058	1127	1150	1258	1322
24	914	986	1065	1104	1176	1200	1314	1380
25	952	1027	1109	1150	1225	1250	1369	1438

tage of the swell of the log—the gain by sawing it into scantling, or large timber, and the fractional parts of an inch in the diameter. Still, it must be remembered, that logs are *never* straight, and that oftentimes there are concealed defects, which must be taken as an offset for the gain above mentioned. It has been my desire to furnish those who deal in lumber of any kind with a set of tables that could be implicitly relied upon

LOGS REDUCED TO INCH-BOARD MEASURE.

L. ft.	Diam 27.	Diam 28.	Diam 29.	Diam 30.	Diam 31.	Diam 32.	Diam 33.	Diam 34.
10	644	669	700	752	795	840	872	925
11	703	734	770	828	874	924	959	1017
12	772	801	840	903	954	1007	1040	1110
13	836	868	910	978	1033	1091	1135	1203
14	901	934	980	1053	1113	1175	1222	1295
15	965	1001	1050	1129	1192	1259	1309	1388
16	1029	1068	1120	1204	1272	1343	1396	1480
17	1094	1134	1190	1279	1351	1427	1484	1573
18	1158	1201	1260	1354	1431	1511	1571	1665
19	1222	1268	1330	1430	1510	1597	1658	1758
20	1287	1335	1400	1505	1590	1679	1745	1850

for correctness by both buyer and seller, and to do so I have spared no pains nor expense to render them perfect; and it is to be hoped that hereafter these will be preferred to the palpably *erroneous* tables which have heretofore been in use. If there be any *truth* in mathematics, or any *dependence* to be placed in the estimates given by a diagram, as shown in the preceding drawing, there cannot remain a particle of doubt of the accuracy of the results here given. In addition to all this, the opinions of extensive lumber dealers have been obtained, and their recommendations to this work are given in the preceding pages.

TABLE VIII.

SHOWING THE CONTENTS OF STANDARD SAW-LOGS, FROM 10 INCHES DIAMETER TO 42.

Diam.	Decimals.	Inches.	Diam.	Decimals.	Inches.
10	100	·277	27	729	2·020
11	121	·335	28	784	2·171
12	144	·399	29	841	2·330
13	169	·478	30	900	2·493
14	196	·543	31	961	2·662
15	225	·623	32	1024	2·836
16	256	·709	33	1089	3·016
17	289	·800	34	1156	3·202
18	324	·897	35	1225	3·390
19	361	1·000	36	1296	3·590
20	400	1·108	37	1369	3·792
21	441	1·221	38	1444	4·000
22	484	1·341	39	1521	4·213
23	529	1·465	40	1600	4·432
24	576	1·595	41	1681	4·656
25	625	1·731	42	1764	4·886
26	676	1·872			

REMARKS.—In most lumbering districts where pine lumber is manufactured, the *standard* measure for logs is 19 inches diameter and 13 feet long, which, it will be seen, gives 361 decimals, or 100 standard inches. Thus, $19 \times 19 = 361$, and $361 \div 361 = 1·00$, which is the standard. If the log exceeds this standard, either in length or diameter, the surplus is reckoned as the decimal parts of another log.

Example.—What are the standard contents of a log, 23 inches diameter, and 13 feet long? $23 \times 23 = 529$, and $529 \div 361 = 1·46$, which is 1 log and 46-hundredths of another.

NOTE.—Multiply the standard inches given for a log of any given diameter by the number of logs of the same diameter; the product will be the measure for such number of logs. The diameter is to be the average measure, taken at the smallest end, from the bark.

TABLE IX.
ACCURATE WOOD-MEASURER.
 LENGTH EIGHT FEET.

Width.		Height in Feet.				Height in Inches.											
FT.	IN.	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12
2	6	20	40	60	80	1	3	5	7	8	10	12	1	5	17	18	
	7	1	41	6	82	2	3	5	7	8	10	12	1	5	17	18	
	8	1	42	6	85	3	4	5	7	9	11	13	1	6	18	20	
	9	2	43	6	88	4	4	6	8	9	11	13	1	7	18	20	
	10	2	45	6	91	4	4	6	8	10	11	13	1	7	19	21	
	11	2	47	7	94	4	4	6	8	10	12	14	1	7	19	21	
3	0	24	4	7	96	1	4	6	8	10	12	14	1	8	20	22	
	1	5	49	7	99	2	4	6	8	10	12	14	1	8	20	22	
	2	5	51	7	101	2	4	6	8	10	12	15	1	9	21	23	
	3	5	52	7	104	2	4	7	9	11	13	15	1	9	22	24	
	4	7	53	7	107	3	5	7	9	11	13	16	1	9	23	25	
	5	7	55	8	109	3	5	7	9	11	13	16	1	10	23	25	
4	6	8	56	8	112	3	5	7	9	11	13	16	1	10	23	26	
	7	9	57	8	115	3	5	8	10	12	15	17	1	10	24	27	
	8	9	58	8	117	3	5	8	10	12	15	17	1	10	24	27	
	9	9	60	8	120	3	5	8	10	13	15	18	2	10	26	28	
	10	1	61	8	123	3	5	8	10	13	16	18	2	10	26	29	
	11	1	63	8	125	3	5	8	10	13	16	18	2	10	26	29	
4	0	12	64	8	128	3	5	8	11	13	16	19	2	11	27	29	

EXPLANATION.—Find the width of the load in the left-hand column of the table; then move to the right, on the same line, till you come under the height in feet, and you have the contents in feet; then move to the right, on the same line, till you come to the height in inches, and you will have the additional contents in feet for the height in inches. The sum of these two gives the true contents in feet. For loads 12 ft. long add $\frac{1}{2}$, and for 4 ft. subtract $\frac{1}{2}$.

Example.—If a load of wood be 2 ft. 10 in. wide, and 3 ft. 7 in. high, what are the contents? A, a 2 ft. 10 in., and under 3 ft., stands 68; and under 7 in., at the top, stands 13; then $13+68=81$, the true content, in feet.

TABLE X.

PRICE OF WOOD, PER CORD.

FT.	12s.	14s.	16s.	18s.	20s.	22s.	24s.	26s.
1	0 01	0 01	0 01	0 02	0 02	0 02	0 02	0 02
2	0 02	0 02	0 03	0 03	0 04	0 04	0 05	0 05
3	0 03	0 04	0 04	0 05	0 06	0 06	0 07	0 07
4	0 05	0 06	0 06	0 07	0 08	0 09	0 09	0 10
5	0 06	0 07	0 08	0 09	0 10	0 11	0 12	0 13
6	0 07	0 08	0 09	0 11	0 12	0 13	0 14	0 15
7	0 08	0 10	0 11	0 12	0 14	0 15	0 16	0 17
8	0 09	0 11	0 12	0 14	0 16	0 18	0 19	0 20
16	0 19	0 22	0 25	0 28	0 31	0 35	0 37	0 40
24	0 23	0 33	0 37	0 42	0 47	0 52	0 56	0 61
32	0 38	0 44	0 50	0 56	0 63	0 69	0 75	0 81
40	0 47	0 55	0 63	0 70	0 78	0 86	0 94	1 02
48	0 56	0 66	0 75	0 84	0 94	1 03	1 12	1 22
56	0 61	0 77	0 88	0 98	1 09	1 20	1 31	1 42
64	0 75	0 88	1 00	1 13	1 25	1 38	1 50	1 62
72	0 84	0 98	1 13	1 27	1 41	1 55	1 69	1 83
80	0 94	1 09	1 25	1 41	1 56	1 72	1 88	2 03
84	0 98	1 15	1 31	1 48	1 64	1 81	1 97	2 13
88	1 03	1 20	1 38	1 55	1 72	1 89	2 06	2 23
92	1 08	1 26	1 44	1 62	1 80	1 98	2 15	2 33
96	1 13	1 31	1 50	1 69	1 88	2 06	2 25	2 44
104	1 22	1 42	1 63	1 83	2 03	2 23	2 44	2 64
112	1 31	1 53	1 75	1 97	2 19	2 41	2 62	2 84
120	1 41	1 64	1 88	2 11	2 34	2 58	2 81	3 05
128	1 50	1 75	2 00	2 25	2 50	2 75	3 00	3 25

EXPLANATION.—Find the number of feet in the left-hand column of the table; then the price in shillings at the top of the page, and trace the line and column until they meet, and you will find the amount in dollars and cents.

Example.—If a load of wood contain 98 feet, at twenty shillings per cord—first find the amount of 96 feet, which is \$1.88; and then add the value of 2 feet (4 cents), making \$1.92. So of all similar examples.

TABLE XI.

TABLE OF WAGES:

EXPLANATION.

THE column on the left-hand of the table shows the number of days; and the rate per month is seen at the top of the page.

To find the amount of 19 days' work, at \$11 per month: find 19 in the column of days; then move to the right, on the same line, till you come under \$11 (the rate per month), and you will find \$8.04—the answer sought.

The amount for 11 days, at \$9 per month, would be found to be \$3.81.

In all cases, the amount will be found directly under the price per month, and at the right of the given time.

In this table, the wages are cast at 26 working days per month. For a fraction of a day, take an equal part of the amount for one day, and for rates less than \$8 per month, half what is shown for twice the amount. Thus, at \$6 per month, for 11 days, take half what the table gives for \$12, that is, \$2.54.

NOTE.—If the wages per month should exceed any provisions made in these tables, the amount may easily be found by taking double what is shown for half such wages.

TABLE OF WAGES, AT GIVEN RATES PER
MONTH OF TWENTY-SIX DAYS.

D.	83.	89.	910.	911.	912.	913.	914.
1	31	35	38	42	45	50	54
2	62	69	77	83	92	1 00	1 08
3	92	1 04	1 15	1 26	1 38	1 50	1 62
4	1 23	1 38	1 54	1 68	1 85	2 00	2 15
5	1 54	1 73	1 92	2 12	2 31	2 50	2 69
6	1 85	2 08	2 31	2 55	2 77	3 00	3 23
7	2 16	2 42	2 69	2 98	3 23	3 50	3 77
8	2 46	2 77	3 08	3 38	3 69	4 00	4 31
9	2 77	3 12	3 46	3 81	4 15	4 50	4 85
10	3 07	3 46	3 85	4 23	4 62	5 00	5 38
11	3 38	3 81	4 23	4 65	5 06	5 50	5 92
12	3 68	4 15	4 62	5 06	5 51	6 00	6 46
13	4 00	4 50	5 00	5 50	6 00	6 50	7 00
14	4 31	4 85	5 38	5 92	6 46	7 00	7 54
15	4 62	5 19	5 77	6 35	6 92	7 50	8 08
16	4 92	5 54	6 16	6 77	7 38	8 00	8 62
17	5 23	5 89	6 54	7 19	7 85	8 50	9 15
18	5 54	6 23	6 92	7 62	8 31	9 00	9 69
19	5 85	6 58	7 31	8 04	8 77	9 50	10 23
20	6 15	6 92	7 69	8 46	9 23	10 00	10 77
21	6 46	7 27	8 08	8 88	9 69	10 50	11 31
22	6 77	7 61	8 46	9 31	10 15	11 00	11 85
23	7 07	7 96	8 85	9 73	10 62	11 50	12 38
24	7 38	8 31	9 23	10 15	11 06	12 00	12 92
25	7 68	8 65	9 62	10 58	11 54	12 50	13 46
26	7 99	9 00	10 00	11 00	12 00	13 00	14 00

TABLE OF WAGES, AT GIVEN RATES PER
MONTH OF TWENTY-SIX DAYS.

D.	\$15.	\$16.	\$17.	\$18.	\$19.	\$20.	\$21.
1	.58	.62	.66	.69	.73	.77	.81
2	1.15	1.23	1.31	1.38	1.46	1.54	1.62
3	1.73	1.85	1.96	2.05	2.15	2.24	2.32
4	2.31	2.46	2.62	2.77	2.91	3.06	3.23
5	2.85	3.08	3.27	3.46	3.6	3.85	4.04
6	3.46	3.69	3.92	4.15	4.3	4.62	4.85
7	4.07	4.31	4.58	4.85	5.12	5.39	5.65
8	4.68	4.92	5.23	5.54	5.85	6.16	6.46
9	5.19	5.54	5.88	6.23	6.58	6.93	7.27
10	5.77	6.15	6.54	6.92	7.31	7.69	8.08
11	6.35	6.77	7.19	7.62	8.04	8.46	8.88
12	6.95	7.38	7.85	8.31	8.77	9.23	9.69
13	7.50	8.00	8.50	9.00	9.50	10.00	10.50
14	8.08	8.62	9.15	9.69	10.22	10.77	11.31
15	9.05	9.23	9.81	10.38	10.96	11.55	12.12
16	9.23	9.35	10.46	11.06	11.66	12.31	12.92
17	9.81	10.46	11.12	11.77	12.42	13.08	13.73
18	10.38	11.08	11.77	12.46	13.16	13.85	14.54
19	10.96	11.69	12.42	13.15	13.88	14.61	15.35
20	11.54	12.31	13.08	13.85	14.62	15.39	16.15
21	12.12	12.92	13.73	14.54	15.35	16.16	16.96
22	12.69	13.54	14.38	15.23	16.08	16.93	17.77
23	13.27	14.15	15.04	15.92	16.81	17.69	18.58
24	13.85	14.77	15.69	16.62	17.54	18.46	19.38
25	14.42	15.38	16.35	17.31	18.27	19.23	20.19
26	15.00	16.00	17.00	18.00	19.00	20.00	21.00

TABLE XII.
OF BOARD, RENT, OR EXPENSES, PER
WEEK OF SIX DAYS.

TIME.		Rate \$1.00	Rate \$1.25	Rate \$1.37	Rate \$1.50	Rate \$1.62½
Weeks.	Days 1	·17	·21	·23	·25	·27
	2	·33	·42	·46	·50	·54
	3	·50	·63	·69	·75	·81
	4	·67	·83	·92	1·00	1·08
	5	·83	1·04	1·15	1·25	1·35
	0	1·00	1·25	1·38	1·50	1·63
	1	2·00	2·50	2·75	3·00	3·25
	2	3·00	3·75	4·13	4·50	4·88
	3	4·00	5·00	5·50	6·00	6·50
	4	5·00	6·25	6·87	7·50	8·13
TIME.		Rate \$1.75	Rate \$2.00	Rate \$2.25	Rate \$2.50	Rate \$3.00
Weeks.	Days 1	·29	·33	·38	·42	·50
	2	·58	·67	·75	·83	1·00
	3	·88	1·00	1·13	1·25	1·50
	4	1·17	1·33	1·50	1·67	2·00
	5	1·46	1·66	1·87	2·08	2·50
	0	1·75	2·00	2·25	2·50	3·00
	1	3·50	4·00	4·50	5·00	6·00
	2	5·25	6·00	6·75	7·50	9·00
	3	7·00	8·00	9·00	10·00	12·00
	4	8·75	10·00	11·25	12·50	15·00

REMARKS.

The column on the left shows the number of days; the caption, the rate per week.

TABLE XIII.
OF BOARD, RENT, OR EXPENSES, PER
WEEK OF SEVEN DAYS.

TIME.		Rate \$1.00	Rate \$1.25	Rate \$1.57½	Rate \$1.50	Rate \$1.62½
Weeks.	Days. 1	·14	·18	·20	·21	·23
	2	·29	·36	·39	·43	·46
	3	·43	·54	·59	·64	·70
	4	·57	·71	·79	·86	·93
	5	·71	·89	·98	1·07	1·16
	6	·86	1·07	1·18	1·29	1·39
	0	1·00	1·25	1·38	1·50	1·63
	1	0	2·00	2·50	3·00	3·25
	2	0	3·00	3·75	4·13	4·83
	3	0	4·00	5·00	5·50	6·50
	4	0	5·00	6·25	6·87	8·13
TIME.		Rate \$1.75	Rate \$2.00	Rate \$2.25	Rate \$2.50	Rate \$3.00
Weeks.	Days. 1	·25	·29	·32	·36	·43
	2	·50	·57	·64	·71	·86
	3	·75	·86	·96	1·07	1·29
	4	1·00	1·14	1·29	1·43	1·71
	5	1·25	1·43	1·61	1·79	2·14
	6	1·50	1·71	1·93	2·14	2·57
	0	1·75	2·00	2·25	2·50	3·00
	1	0	3·50	4·00	4·50	6·00
	2	0	5·25	6·00	6·75	9·00
	3	0	7·00	8·00	9·00	12·00
	4	0	8·75	10·00	11·25	15·00

REMARKS.

The column on the left shows the number of days; the caption, the rate per week.

TABLE XIV.
DISTANCES BY RAILROAD FROM ALBANY.

NAMES.	Place to place.	From Albany.	To Buffalo.	NAMES.	Place to place.	From Albany.	To Boston.
ALBANY.....		0	325	ALBANY.....		0	200
Schenectady....	16	16	309	Schodack.....	8	8	192
Hoffman's.....	9	25	300	Kinderhook....	8	16	184
Amsterdam.....	6	31	294	Chatham.....	7	23	177
Fonda.....	11	42	283	East Chatham..	5	28	172
Palatine Bridge.	11	53	272	Canaan.....	5	33	167
Fort Plain.....	3	56	269	State Line.....	5	38	162
St. Johnsville...	6	62	263	Richmond.....	3	41	159
Little Falls....	10	72	253	Shaker Village..	3	44	156
Herkimer.....	7	79	246	Pittsfield.....	5	49	151
Utica.....	14	93	232	Dalton.....	5	54	146
Rome.....	15	108	217	Hinsdale.....	3	57	143
Oneida Depot...	12	120	205	Washington....	5	62	138
Canastota.....	6	126	199	Becket.....	3	65	135
Chittenango....	7	133	192	Chester Factory	9	74	126
Manlius.....	6	139	186	Chester Village..	7	81	119
Syracuse.....	8	147	178	Russell.....	1	82	118
Marcellus.....	12	159	166	Westfield.....	10	92	108
Skaneateles.....	6	165	160	W. Springfield..	8	100	100
Auburn.....	8	173	152	Springfield....	2	102	98
Cayuga Bridge..	11	184	141	Wilbraham.....	6	108	92
Seneca Falls....	5	189	136	Palmer.....	9	117	83
Watertown.....	3	192	133	Warren.....	10	127	73
Geneva.....	7	199	126	Spencer.....	11	138	62
East Vienna....	8	207	118	Worcester.....	18	156	44
West Vienna....	2	209	116	Grafton.....	6	163	38
Canandaigua....	12	221	104	Southboro.....	16	172	28
Pittsford.....	21	242	83	Hopkinton.....	4	176	24
Rochester.....	8	250	75	Farmington....	3	179	21
Batavia.....	31	281	44	Needham.....	8	187	13
Attica.....	11	292	33	Brighton.....	8	193	5
Buffalo.....	33	325	0	Boston.....	5	200	0

TABLE XV. TABLES OF INTEREST.

EXPLANATION.

THE principal, beginning at \$1, and proceeding to the highest sum in the tables, will, in all cases, be found at the head of the page. The time, for which the interest on any given amount may be sought, will be found in the left-hand column of the tables, from 1 day to 1 year; that is to say, from 1 to 300 days, in regular succession—then passing to a month, and then proceeding down to 12 months. The interest required for the given time on the given principal, will be found against the time contained in the tables, and directly under the principal. So we have, on the same page, the interest on the sum required for years, months and days, for any period of time from 1 day to 1 year. If the interest on any given principal be required for a longer period of time than for which any provision has been made in these tables, we have only to double the amount of interest shown for half that time. Thus, if the interest on \$28 be required for 2 years and 8 months, the tables show the interest for 1 year and 4 months to be \$2.61; consequently, twice that amount will be the interest sought. If the interest on months and days be required, add the interest for the given months and days together; and in like manner, for the years, months, and days.

NOTE.—One-seventh subtracted from the interest given by these tables, will give the interest at six per cent.

TABLE OF INTEREST AT SEVEN PER CENT. C9

	\$12	\$13	\$14	\$15	\$16	\$17	\$18	\$19	\$20	\$21
Days	0	0	0	0	0	0	0	0	0	0
1	0	0	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	2	2
4	1	1	1	1	1	1	1	1	2	2
5	1	1	1	1	2	2	2	2	2	2
6	1	1	2	2	2	2	2	2	2	2
7	2	2	2	2	2	2	2	3	3	3
8	2	2	2	2	2	3	3	3	3	3
9	2	2	2	3	3	3	3	3	3	4
10	2	2	3	3	3	3	3	4	4	4
11	3	3	3	3	3	4	4	4	4	4
12	3	3	3	3	4	4	4	4	5	5
13	3	3	3	4	4	4	4	5	5	5
14	3	3	4	4	4	5	5	5	5	6
15	3	4	4	4	5	5	5	5	6	6
16	4	4	4	5	5	5	6	6	6	6
17	4	4	5	5	5	6	6	6	7	7
18	4	4	5	5	6	6	6	7	7	7
19	4	5	5	5	6	6	7	7	8	8
20	5	5	5	6	6	7	7	8	8	8
21	5	5	6	6	6	7	7	8	8	9
22	5	5	6	6	7	7	8	8	9	9
23	5	6	6	7	7	7	8	8	9	10
24	6	6	6	7	7	8	8	9	9	10
25	6	6	7	7	8	8	9	9	10	10
26	6	6	7	7	8	8	9	10	10	11
27	6	7	7	8	8	9	9	10	11	11
28	6	7	8	8	9	9	10	10	11	12
29	7	7	8	8	9	9	10	11	11	12
30	7	7	8	9	9	10	10	11	12	12
Months	7	8	8	9	9	10	11	11	12	12
1	7	8	8	9	9	10	11	11	12	12
2	14	15	16	18	19	20	21	22	23	25
3	21	23	25	26	28	30	32	33	35	37
4	28	30	33	35	37	40	42	44	47	49
5	35	38	41	44	47	50	53	55	58	61
6	42	46	49	53	56	60	63	67	70	74
7	49	53	57	61	65	69	74	78	82	86
8	56	61	65	70	75	79	84	89	93	98
9	63	68	74	79	84	89	95	1'00	1'05	1'10
10	70	76	82	88	93	99	1'05	1'11	1'17	1'23
11	77	83	90	96	1'03	1'09	1'16	1'22	1'28	1'35
12	84	91	98	1'05	1'12	1'19	1'26	1'33	1'40	1'47

TABLE OF INTEREST AT SEVEN PER CENT. 71

	\$35	\$40	\$45	\$50	\$55	\$60	\$65	\$70	\$75
Days.	1	1	1	1	1	1	1	1	1
2	1	2	2	2	2	2	2	3	3
3	2	2	3	3	3	3	4	4	4
4	3	3	3	4	4	5	5	5	6
5	3	4	4	5	5	6	6	7	7
6	4	5	5	6	6	7	7	8	9
7	5	5	6	7	7	8	9	9	10
8	5	6	7	8	8	9	10	11	12
9	6	7	8	9	9	10	11	12	13
10	7	8	9	10	11	12	12	13	14
11	7	8	9	11	12	13	14	15	16
12	8	9	10	12	13	14	15	16	17
13	9	10	11	12	14	15	16	17	19
14	9	11	12	13	15	16	17	19	20
15	10	12	13	14	16	17	19	20	22
16	11	12	14	15	17	18	20	21	23
17	11	13	15	16	18	20	21	23	24
18	12	14	16	17	19	21	22	24	26
19	13	15	16	18	20	22	24	26	27
20	13	15	17	19	21	23	25	27	29
21	14	16	18	20	22	24	26	28	30
22	15	17	19	21	23	25	27	30	32
23	15	18	20	22	24	26	29	31	33
24	16	18	21	23	25	28	30	32	35
25	17	19	22	24	26	29	31	34	36
26	17	20	22	25	27	30	32	35	37
27	18	21	23	26	28	31	34	36	39
28	19	21	24	27	30	32	35	38	40
29	19	22	25	28	31	33	36	39	42
30	20	23	26	29	32	35	37	40	43
Months.	1	20	23	26	29	32	35	41	44
2	41	47	53	58	64	70	76	82	48
3	61	70	79	88	96	1'05	1'14	1'23	1'31
4	82	93	1'05	1'17	1'28	1'40	1'52	1'63	1'75
5	1'02	1'17	1'31	1'46	1'60	1'75	1'90	2'04	2'19
6	1'23	1'40	1'58	1'75	1'93	2'10	2'28	2'45	2'63
7	1'43	1'63	1'84	2'04	2'25	2'45	2'65	2'86	3'06
8	1'63	1'87	2'10	2'33	2'57	2'80	3'03	3'27	3'50
9	1'84	2'10	2'36	2'63	2'89	3'15	3'41	3'68	3'94
10	2'04	2'33	2'63	2'92	3'21	3'50	3'79	4'08	4'38
11	2'25	2'57	2'89	3'21	3'53	3'85	4'17	4'49	4'81
12	2'45	2'80	3'15	3'50	3'85	4'20	4'55	4'90	5'25

72 TABLE OF INTEREST AT SEVEN PER CENT.

	\$80	\$85	\$90	\$95	\$100	\$200	\$300	\$400
Days.	2	2	2	2	2	4	6	8
1	3	3	3	4	4	8	12	15
2	5	5	5	5	6	12	17	23
3	6	7	7	7	8	15	23	31
4	8	8	9	9	10	19	29	38
5	9	10	10	11	12	23	35	46
6	11	11	12	13	13	27	40	54
7	12	13	14	15	15	31	46	61
8	14	15	16	16	17	35	52	69
9	15	16	17	18	19	38	58	77
10	17	18	19	20	21	42	63	84
11	18	20	21	22	23	46	69	92
12	20	21	22	24	25	50	75	1 00
13	21	23	24	26	27	54	81	1 07
14	23	24	26	27	29	58	86	1 15
15	25	26	28	29	31	61	92	1 23
16	26	28	29	31	33	65	98	1 30
17	28	29	31	33	35	69	1 04	1 38
18	29	31	33	35	36	73	1 09	1 46
19	31	33	35	36	38	77	1 15	1 53
20	32	34	36	38	40	81	1 21	1 61
21	34	36	38	40	42	84	1 27	1 69
22	35	37	40	42	44	88	1 32	1 76
23	37	39	41	44	46	92	1 38	1 84
24	38	41	43	46	48	96	1 44	1 92
25	40	42	45	47	50	1 00	1 50	1 99
26	41	44	47	49	52	1 04	1 55	2 07
27	43	46	48	51	54	1 07	1 61	2 15
28	44	47	50	53	56	1 11	1 67	2 22
29	46	48	52	55	58	1 15	1 73	2 30
30								
Months.	47	50	53	55	58	1 17	1 75	2 33
1	93	99	1 05	1 11	1 17	2 33	3 50	4 67
2	1 40	1 49	1 58	1 66	1 75	3 50	5 25	7 00
3	1 87	1 98	2 10	2 22	2 33	4 67	7 00	9 33
4	2 33	2 48	2 63	2 77	2 92	5 88	8 75	11 67
5	2 80	2 98	3 15	3 33	3 50	7 00	10 50	14 00
6	3 27	3 47	3 68	3 88	4 08	8 17	12 25	16 33
7	3 73	3 97	4 20	4 43	4 67	9 33	14 00	18 67
8	4 20	4 46	4 73	4 99	5 25	10 50	15 75	21 00
9	4 67	4 96	5 25	5 54	5 83	11 67	17 50	23 33
10	5 13	5 45	5 78	6 10	6 42	12 83	19 25	25 67
11	5 60	5 95	6 30	6 65	7 00	14 00	21 00	28 00
12								

SCRIBNER'S
PRODUCE TABLES,

EXHIBITING AT ONE VIEW

**The value of more than Sixteen Thousand
different quantities of Grain,**

COMPUTED AT SIXTY POUNDS TO THE BUSHEL;

AND ALSO CHANGING ANY GIVEN QUANTITY
OF POUNDS INTO BUSHELS.

SANSUM'S
Interest and Exchange
TABLES.
SIX AND SEVEN PER CENT.

READY RECKONER

IN DOLLARS AND CENTS:

WITH

Interest Tables at 6 and 7 Per Cent.