

Conversion Table: True Size (Feet) to Scale Size (Inches) The following table, developed by Ken Dorr, allows you to convert dimensions on prototype, measured in feet, to dimensions on a model, measured in inches. To use the table, find the prototype dimension in feet in the left hand column. Then translate across until you reach the scale column for the scale of your model, and read off the scale dimension in inches. If the dimension you are looking for is not on the chart, you can find it by adding two other dimensions.

Example #1 : A plank on the original ship is 20 feet long. To determine the length of this plank at 3/8"=1' scale, find the row for 20 feet, then translate across to the column labeled 3/8. The value at the intersection (7-1/2) is the length of the scale plank in inches.

Example #2: A ship's boom on the prototype is 38 feet long. You wish to determine the scale length of the boom at 3/16"=1' scale. Since this value is not shown on the chart, two look-up operations are needed. First, look up 30 feet in the right hand column. Translating across to the 3/16 column, we find the value 4-5/8 inches. This gives you the length of a 30 foot boom at 3/16"=1' scale. Next, starting in the left-most column with a length of 8 feet, translate across to the 3/16 column. This gives you scale length of the remaining 8 feet, 1-1/2 inch. Adding the two scale sizes together, you find that the length of the 38 foot boom is 4 5/8 + 1 1/2 = 6 1/8 inches in length at 3/16"=1' scale.

Feet	Scale									
	1/32	1/16	1/8	3/16	1/4	3/8	1/2	5/8	3/4	1
1	1/32	1/16	1/8	3/16	1/4	3/8	1/2	5/8	3/4	1
2	1/16	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
3	3/32	3/16	3/8	9/16	3/4	1-1/8	1-1/2	1-7/8	2-1/4	3
4	1/8	1/4	1/2	3/4	1	1-1/2	2	2-1/4	3	4
5	5/32	5/16	5/8	15/16	1-1/4	1-7/8	2-1/2	3-1/8	3-3/4	5
6	3/16	3/8	3/4	1-1/8	1-1/2	2-1/4	3	4-1/4	4-1/2	5
7	7/32	7/16	7/8	1-5/16	1-3/4	2-5/8	3-1/2	4-3/8	5-1/4	7
8	1/4	1/2	1	1-1/2	2	3	4	5	6	8
9	9/32	9/16	1-1/8	1-11/16	2-1/4	3-3/8	4-1/2	5-5/8	6-3/4	9
10	5/16	5/8	1-1/4	1-7/8	2-1/2	3-3/4	5	6-1/4	7-1/2	10
20	5/8	1-1/4	2-1/2	3-3/4	5	7-1/2	10	12-1/2	15	20
30	15/16	1-7/8	3-3/4	4-5/8	7-1/2	11-1/4	15	18-3/4	22-1/2	30
40	1-1/4	2-1/2	5	7-1/2	10	15	20	25	30	40
50	1-9/16	3-1/8	6-1/4	9-3/8	12-1/2	18-3/4	25	31-1/4	37-1/2	50
60	1-7/8	3-3/4	7-1/2	11-1/4	15	22-1/2	30	37-1/2	45	60
70	2-3/16	4-3/8	8-3/4	13-1/8	17-1/2	26-1/4	35	43-3/4	52-1/2	70
80	2-1/2	5	10	15	20	30	40	50	60	80
90	2-13/32	5-5/8	11-1/4	16-7/8	22-1/2	33-3/4	45	56-1/4	67-1/2	90
100	3-1/8	6-1/4	12-1/2	18-3/4	25	37-1/2	50	62-1/2	75	100
150	4-11/16	9-7/8	18-3/4	28-1/8	37-1/2	56-1/4	75	93-3/4	112-1/2	150
200	6-1/4	12-1/2	25	37-1/2	50	75	100	125	150	200
250	7-13/16	15-5/8	37-1/2	46-7/8	62-1/2	93-1/4	125	156-1/4	187-1/2	250
300	9-3/8	18-3/4	46-7/8	56-1/4	75	100-1/2	150	187-1/2	225	300
350	10-15/16	21-7/8	56-1/4	65-5/8	87-1/2	131-1/2	175	198-3/4	262-1/2	350

