Rule

To measure the Hight of Trees Chimneys Steeples or any thing of that kind; First you must have a Staff of any Certain length and Set your Staff down by the Tree So that the Shade of the Staff will be Straight with the Shadow of the Tree then measure the Shadow of your Staff then Measure the Shade of the Tree; Then State and Say if the Shadow of the Staff becomes the length of the Staff what will the Shade of the Tree become. State it by the Single rule of Three Direct and in so working you will find the Hight of the Tree, Some persons would Suppose this rule ff to be Little Strange but to a right Consideration of it, it is not So Strange a Thing for we will Suppose the Sun not always to be of one Hight So for that reason the Shade of the Trees is not always of one length, neither is the Shade of your Staff always of one length for in the Morning or evening the Shade of the Tree and Staff will both be long and at the middle of the day they both will be Short So by that reason when one is long the other is long and when one is Short the ther is So likewise and the Staff is always of one length of feet which is always the middle number which will make your Answer always feet if you work it by the Single rule of Tree Direct, for the first & third must be of one name and the Answer ~~& the~~ must be of the Same name of the middle number ff & ff

Examples

Measuring

If the Shadow of a pole or rod be 4 feet long when a 3 foot Staff the Shade is 1 foot long how long is that pole or rod Demand

As Staff Shade pole
If 1 " 3 " 4

4
1 | 12
12 Feet Answer

If the Shade of a Staff that is 4 feet long be 12 feet long, and the Shade of a Tree be 300 feet long how many feet long is that Tree Demand August 6th day 1793

Shade Staff Shade
If 12 " 4 " 300

300
12 | 1200
100 Feet Answer

How long will a Tree be that is 300 foot Shade by a Staff 5 feet when the Shade is 25 feet long — Demand

Shade Staff Shade
If 25 " 5 " 300

300
5 | 1500
25 { 5 | 300
60 Feet Answer

If the Shade of a Tree be 200 feet long when the Shade of a 4 foot Staff is 9 feet long how many feet long is that Tree Demand &c

Shade Staff Tree
If 9 " 4 " 200

200
9 | 800
88 8/9 Answer

If the Shadow of a Staff that is 5 feet long be 15 feet long how long will a Tree be by the same Staff that the Shade is 250 feet long — Demand

Shade Staff Shade
If 15 " 5 " 250

250
3 | 1250
5 | 413-1
Answer feet 82. 10/15 or 2/3

If the Shade of a staff is 2 feet long when the Staff is 6 long how long will a Tree be that is 85 feet Shade &c

If 6 " 2 " 85

85
6 | 170
28 2/6 or 1/3 Answ

Measuring

How many feet long will a Tree be that the Shade is 150 feet long by a Staff 6 feet long and the Shade 12 feet long Demand

If Shade Staff Shade
12 " 6 " 150

150
12 ⟌ 900
75 Answer

If the Shade of a Tree be 75 feet long when the Shade of a 6 foot Staff is 2 foot long how many feet long is that Tree Demand

If Shade Staff Shade
2 " 6 " 75

75
2 ⟌ 450
225 feet Answer

Suppose the Shadow of a Staff that is 6 feet long to be 3 how many feet long will a Tree be that is 85 feet Shade by the Same Staff to State it by the Single rule of Three Demd

If Shade Staff Shade
3 " 6 " 85

85
3 ⟌ 510
170 feet Answer

If Shade feet Shade
85 " 170 " 3

3
85 ⟌ 510 ⟌ 6 Proof
510

Suppose A Tree to have a Shade 300 feet long how many feet will that Tree be to measure it by a Six foot Staff, when the Shade of the Staff is 30 feet long Demd and proof

If Shade Staff Shade
30 " 6 " 300

300
30 ⟌ 1800
60 feet Answer

If Shade feet Shade
300 " 60 " 30

30
300 ⟌ 1800
6 Proof

85