



Centimeters

## A tradicional nautical calculator: the Speed - Time Scale



### Find the speed knowing the time taken to travel a distance

- Place the left end of a dividers on the number that indicates the distance traveled, and the right end on the number indicating the minutes elapsed.
- Keeping the same opening, place now the right end on 60: the left end will indicate the speed.

### Find the distance traveled by knowing the time taken and speed

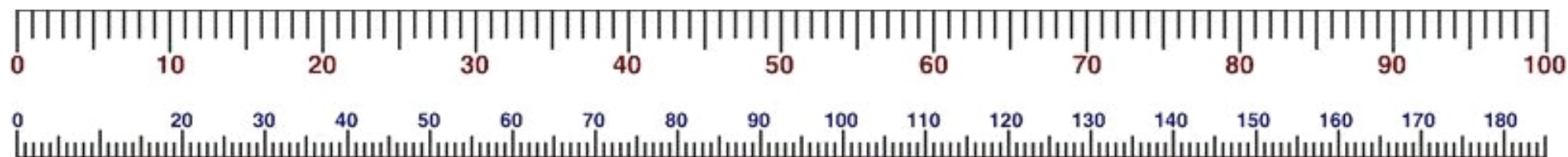
- Place the right end of a dividers on 60, and the left end on the number that indicates the speed.
- Keeping the same opening, place now the right end on the number indicating the minutes elapsed: the left end will indicate the distance traveled.



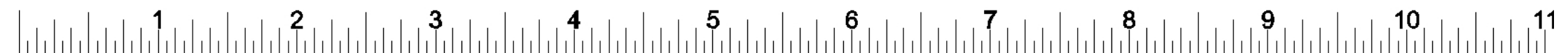
### Find the time required to travel a distance knowing the speed

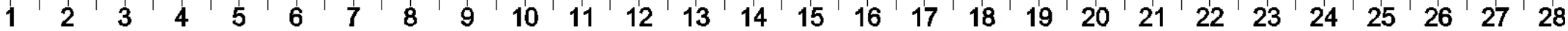
- Place the right end of a dividers on 60 and the left end on the number that indicates the speed.
- Keeping the same opening, place now the left end on the number indicating the distance to travel: the right end will indicate the time needed.

## Nautic Miles - Kilometres Scale



Inches





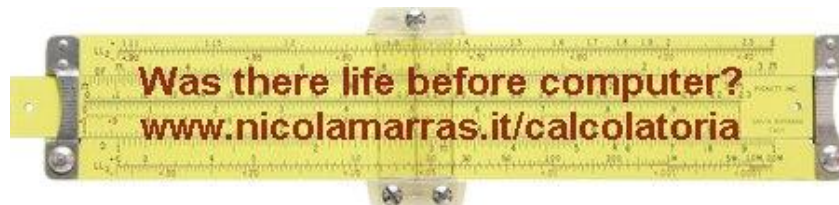
Centimeters

## Unplugged: the calculation before the digital era

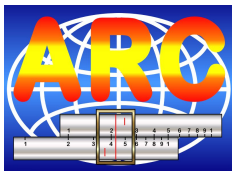
The modern world has short memory and soon the remembrance of the ancient calculating instruments will disappear, but nobody can learn mathematics without having a rough idea of how calculations were carried before the digital era: it would be like study history starting only from the Industrial Revolution.

This is my effort to keep them alive, through public exhibits and conferences in the schools: it takes just a few minutes to communicate the existence of a world *"before computer"*, a world where with simple tools we reached the Moon! As a static exposition of scientific instruments causes just a mild curiosity, I make a *"dynamic"* exhibit focused in quickly teaching *"how to"* use them. Math on the move!

Let us remember those who helped to create the modern world using technology, not depending on it. We often use the electronic as the alcoholic does with the street lamp: to lean on and not to make light. Einstein had a slide rule less powerful of any smartphone and calculation is now within the reach of everybody, how many will be able to do better?



***If we do not communicate our knowledge, in few years no one will understand what a slide rule is!***



THE OUGHTRED SOCIETY



SCIENZA società



Inches

