## HOW TO USE THE SANKYO SLIDE RULE





The slide rule can be described as a ruler having logarithmic graduations. The scales A and B are identically graduated from 1 to 100, and the scales C and D from 1 to 10.

## Calculating with the slide rule

- a) Read the scales up to 3 figures.
- b) All calculations are to be made in units place.
- c) In principle, answers are to be obtained on the scales
  A and B.
- 1) Basic multiplication and division:
  - F or basic multiplication and division, the scales C and D are used.



For example 3, the answer divided by 10 will be shown on the scale D; while for example 4, the answer multiplied by 10 will be shown on the scale D.

2) How to use the scale C1:

The scale  $C_1$  is graduated with numbers arranged opposite to the numbers on the scale C. Now, the scales  $C_1$  and D will be used for calculation.

Example 5  $2 \times 4 = 8$  Example 6  $8 \div 4 = 2$ 



Example 7 4×7=28 Example 8 2.8÷7=0.4



These examples show just the opposite way of multiplying and dividing as compared with the preceding examples where the scales C and D were used.

3) Continual multiplication and division: The scales C, C<sub>1</sub> and D will be used.

Example 9  $3 \times 4 \times 6 = 72$  Example 10  $\frac{7.2}{6 \times 4} = 0.3$ 



4) Proportion:

The scales C and D will be used, setting one against the other.

Example 11 - Fill the blanks below with percentages and index numbers.



Percentades



Index numbers.



5) Inverse proportion:

The scales  $C_1$  and D will be used, setting one against the other. Example omitted.

6) Square and root:

For calculation of square or root of numbers, the scales A and D will be used.

Example 12  $6^2 = 36$ 



Example 13  $\sqrt{49} = 7$ 

7) Diameter and area of circles:

When the  $\pi$  on the scale A is set to 4 on the scale B, there is a point marked C where 1 on the scale D is in line with 1,128 on the scale C. With the slide scale in this position, the Cursor line gives the diameter of a circle on the scale C and its area on the scale A.

## Example 15-Fill the blanks below.



Note:

For numbers out of the scales, set the mark C to 10 on the scale D.

## SANKYO SLIDE RULE CO., LTD.

Printed in Japan

Tokye, Japan.