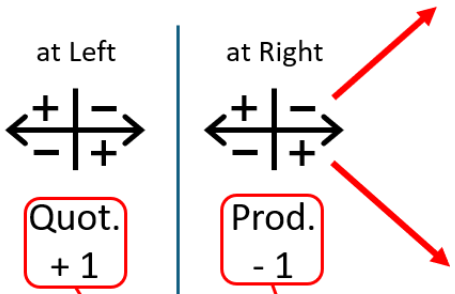
I - Two slide rules with special figure

https://www.rekeninstrumenten.nl/workshop/ChrisC/index.htm. Although already solved, this may be of help:

Labels in the Slide Rule for Digits Counting

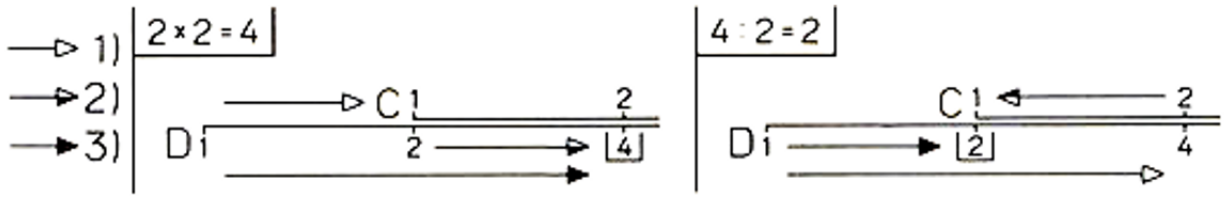


1. Upper Row: **Multiplication** (*M = A X B*)
   - **Arrow to the left with + sign:** If the slide protrudes to the left side, the product number of digits is the sum of the digits of both factors ($d_A + d_B$).
   - **Arrow to the right with - sign:** If the slide protrudes to the right side, the product number of digits is the sum of the digits of both factors **minus 1** ($d_A + d_B - 1$).

2. Lower Row: **Division** (*Q = N / D*)
   - **Arrow to the left with - sign:** If the slide protrudes to the left side, the quotient number of digits is just the subtraction of both factors' digits ($d_N - d_D$).
   - **Arrow to the right with + sign:** If the slide protrudes to the right side, the quotient number of digits is the subtraction of both factors' digits **plus 1** ($d_N - d_D + 1$).

Multiplication: we add the digits to the left of the coma of both factors (d), or the "exponents" (E), and if the slide:
- Protrudes to the right: d-1, E+0 -> 2 x 4 = 8; d: 1+1-1=1; E: 0+0+0=0
- Protrudes to the left: d+0, E+1 -> 2 x 8 = 16; d: 1+1+0=2; E: 0+0+1=1

Division: we subtract the digits to the left of the coma of both factors (d), or the "exponents" (E), and if the slide:
- Protrudes to the right: d+1, E+0 -> 4 : 2 = 2; d: 1-1+1=1; E: 0-0+0=0
- Protrudes to the left: d+0, E-1 -> 20 : 5 = 4; d: 2-1+0=1; E: 1-0-1=0



…using "standard" operations. If starting at C, or if CI is used, this is not valid.