TABLE 1. Slide Rule Scale Symbols and Meanings

Symbol	Mathematical Relationship	Range	Description	Function
A	x^2	1 - 100	2-cycle, Square of D, on stock	Find Squares & Square Roots
B	x^2	1 - 100	2-cycle, Square of C, on slide	Find Squares & Square Roots
AI	$1/x^2$	1 - 0.01	2-cycle, Reciprocal of A or 2-cycle, Reciprocal Square of D	Reciprocals, Chain Multiplication & Division
BI	$1/x^2$	1 - 0.01	2-cycle, Reciprocal of B or 2-cycle, Reciprocal Square of C	Reciprocals, Chain Multiplication & Division
C	x	1 - 10	1-cycle, Principal scale, on slide	Basic Multiplication & Division
D	x	1 - 10	1-cycle, Principal scale, on stock	Basic Multiplication & Division
CF	πx	3.1 - 31	1-cycle, Folded at π or $\sqrt{10}$	Multiplies result by π
CI	$1/x$	1 - 0.1	1-cycle, Reciprocal of C	Reciprocals, Chain Multiplication & Division
CIF	$1/\pi x$	0.33 – 0.03	1-cycle, Folded at π, Reciprocal of CF	Divides result by π
DF	πx	3.1 - 31	1-cycle, Folded at π or $\sqrt{10}$	Multiplies result by π
DI	$1/x$	1 - 0.1	1-cycle, Reciprocal of D	Reciprocals, Chain Multiplication & Division
DIF	$1/\pi x$	0.33 – 0.03	1-cycle, Folded at π, Reciprocal of DF	Divides result by π
K	x^3	1 - 1000	3-cycle, Cube of D	Find Cubes & Cube Roots
L	$\log_{10}(x)$	0 - 1	Linear scale	Mantissa of base10 logarithm of D
LL, Ln	$\ln(x)$	0 – 2.7	Natural logarithm of x	Raise D to any power or extract any root
LL0	$e^{0.001x}$	1.001 – 1.01	Exponent of $x \cdot 10^{-3}$	Log Log scales
LL1	$e^{0.01x}$	1.01 – 1.11	Exponent of $x \cdot 10^{-2}$	Log Log scales
LL2	$e^{0.1x}$	1.1 – 3.0	Exponent of $x \cdot 10^{-1}$	Log Log scales
LL3	e^x	2.5 – 100,000	Exponent of x	Log Log scales
LL00	$e^{-0.001x}$	0.999 – 0.990	Exponent of $-x \cdot 10^{-3}$	Reciprocal Log Log scales
LL01	$e^{-0.01x}$	0.99 – 0.90	Exponent of $-x \cdot 10^{-2}$	Reciprocal Log Log scales
LL02	$e^{-0.1x}$	0.91 – 0.35	Exponent of $-x \cdot 10^{-1}$	Reciprocal Log Log scales
LL03	e^{-x}	0.4 – 0.00001	Exponent of -x	Reciprocal Log Log scales
R1	$\sqrt{x}$	1 – 3.2	R1 is the square root of D	Double Length Square Root Scale
R2	$\sqrt{10x}$	3 - 10	R2 is the square root of 10D	Double Length Square Root Scale
P	$\sqrt{(1-(0.1x)^2)}$	0.996 - 0	Cosine of $\sin^{-1}$(D/10)	Pythagorean scale
S	$\sin^{-1}(x)$	5.8° - 90°	D is the sine of angle S	Trigonometric sine
T	$\tan^{-1}(x)$, $\cot^{-1}(x)$	5.8° - 90°	D is the tangent/cotangent of angle T	Trigonometric tangent & cotangent
T1	$\tan^{-1}(x)$, $\cot^{-1}(x)$	5°-49°/41°-85°	D is the tangent/cotangent of angle T	Trigonometric tangent & cotangent
T2	$\tan^{-1}(x)$, $\cot^{-1}(x)$	41°-85°/5°-49°	D is the tangent/cotangent of angle T	Trigonometric tangent & cotangent
ST	$\sin^{-1}(x)$, $\tan^{-1}(x)$	0.58° – 5.8°	D is the sin or tan of angle ST	Trigonometric sine or tangent for small angles
Ch	$\cosh^{-1}(x)$	0.1 - 3	D is the hyperbolic cosine of Ch	Hyperbolic Cosine
Th	$\tanh^{-1}(x)$	0.1 - 3	D is the hyperbolic tangent of Th	Hyperbolic Tangent
Sh1	$\sinh^{-1}(x)$	0.1 – 0.9	Hyperbolic sine of angle S	For small values
Sh2	$\sinh^{-1}(x)$	0.85 – 3	Hyperbolic sine of angle S	For larger values
H1	$\sqrt{(1+(0.1x)^2)}$	1.005 - 1.5	cosh of $\sinh^{-1}$ of 0.1D	Hypotenuse Scale
H2	$\sqrt{(1+x^2)}$	1.4 - 10	cosh of $\sinh^{-1}$ of D	Hypotenuse Scale
V	Volts	0.5 – 10	Voltage drop	For motors & generators
W	%	20 - 100	Efficiency	For motors & generators
§			Arbitrary symbol	For unlabeled scales with no standard symbol
in			Ruler in inches	Convenience
cm			Ruler in centimeters	Convenience