



Use $\log_a \square$, x^\square and $(\sqrt[\square]{\square})$ on your calculator to help you fill in the blank spaces \square with the appropriate number. The first one has been done for you.

Index Notation	Logarithmic Notation
$2^2 = 4$	$\log_2 (4) = 2$
$3^2 = \square$	$\log_3 (\square) = 2$
$4^\square = 64$	$\log_4 (64) = \square$
$\square^2 = 25$	$\log_\square (25) = 2$
$7^\square = 2401$	$\log_7 (2401) = \square$
$6^5 = \square$	$\log_6 (\square) = 5$
$\square^5 = 10000$	$\log_\square (10000) = 5$
$\square^2 = \square$	$\log_{16} (\square) = 2$
$8^\square = 512$	$\log_\square (512) = \square$
$\square^\square = 6$	$\log_{36} (6) = \square$
$\square^{1/3} = \square$	$\log_\square (9) = \square$
$\square^{1/4} = \square$	$\log_\square (20736) = \square$

Requires a Casio Calculator or similar with the buttons listed above.

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Solutions

Index Notation	Logarithmic Notation
$2^2 = 4$	$\log_2 (4) = 2$
$3^2 = 9$	$\log_3 (9) = 2$
$4^3 = 64$	$\log_4 (64) = 3$
$5^2 = 25$	$\log_5 (25) = 2$
$7^4 = 2401$	$\log_7 (2401) = 4$
$6^5 = 7776$	$\log_6 (7776) = 5$
$10^5 = 10000$	$\log_{10} (10000) = 5$
$16^2 = 256$	$\log_{16} (256) = 2$
$8^3 = 512$	$\log_8 (512) = 3$
$36^{1/2} = 6$	$\log_{36} (6) = 1/2$
$729^{1/3} = 9$	$\log_{729} (9) = 1/3$
$12^{1/4} = 20736$	$\log_{12} (20736) = 1/4$