



Use your calculator to help you fill in the blank spaces \square with the appropriate number. The first one has been done for you.

Key buttons to use:

fx-991EX or fx-83 | 85GTX: Use \log_{\square} , x^{\square} and $(\sqrt{\square})$

fx-991CW or fx-83 | 85GTCW: Use \log_{\square} , \square^{\square} and $(\sqrt{\square})$

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