

Start

$$\log_a \frac{x^2}{y}$$

$\log_5 125$	$\log_a x^6$	$6 \log_a x$	$\log_a 36 + \log_a 2 - \log_a 8$	$\log_a 9$	$2 \log_a x - \log_a y$
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3

$$\log_a \frac{x}{\sqrt{y}}$$

$\log_a x - \frac{1}{2} \log_a y$	$\log_a 2$	$\frac{1}{3} \log_a 8$	$\log_a 1 - \log_a 8$	$\log_a 0.125$	$\log_a x - \log_a y$
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$$\log_a \frac{x}{y}$$

$$\frac{1}{2} \log_a x$$

$\log_{10} 100$	$\log_5 0.2$	-1	$\log_5 40 = x$	$5^x = 40$	$\log_a \sqrt{x}$
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					2
					$\log_e e^7$
$\log_{10} 0.01$	$2\log_a x + 5\log_a y$	$\log_a x^2 y^5$	$-\frac{1}{2}$	$\log_{36} \frac{1}{6}$	7
-2					
$\log_y 20 = 5$					
$y^5 = 20$	$5\log_a 2$	$\log_a 32$	$\log_4 1$	0	$\log_a 0.4$
					$\log_a 2 - \log_a 5$
					$\log_3 81$
Finish	$\log_a 0.25$	$-\log_a 4$	$\frac{1}{2}$	$\log_{36} 6$	4