

# Logarithmic Expressions Shuffle

Directions: Cut out each puzzle piece, find the sides that have matching expressions for each logarithm. Then, glue them onto this page Block #6 is marked as correct for a place to start.

	6		

Copy cards on a separate sheet of paper to cut and paste.

$2/3$ $3/2$ $1$ $\log_{12} 12$ $\log_8 x = \frac{1}{6}$	$1$ $\log_x \frac{1}{25} = -\frac{2}{3}$ $2$ $\log_7 7^4$	$1/2$ $5$ $3$ $\log_5 x = 4$	$-4$ $4$ $5$ $\log 100$ $\log_3 \frac{1}{27}$
$8$ $5$ $216$ $\log_x \sqrt{5} = \frac{1}{4}$	$10$ $6$ $-5$ $\log_x 64 = 3$ $\log_9 27$	$25$ $7$ $4$ $\log_3 243 = x$ $\log_6 x = 3$	$\sqrt{3}/3$ $8$ $-2/3$ $\log 1000$ $\log_{25} 5$
$81$ $4$ $\log_3 27$ $\log_1 4 = x$ $\log_{25} 5$ $\sqrt{2}$ $13$ $\sqrt{3}$	$81$ $4$ $\log_6 x = 3$ $0$ $10$ $\log_6 6^{10}$	$\log_8 1$ $11$ $6$ $\log_8 \frac{1}{4} = x$ $\log_{1/2} 32$	$5$ $12$ $216$ $5$ $\log_8 4$ $\log_x 3 = -2$
$12$ $14$ $\log_x 7 = \frac{1}{2}$ $1$ $\log_2 32 = x$	$1$ $15$ $49$ $\log_{\sqrt{2}} 8$	$125$ $15$ $49$ $\log_{\sqrt{2}} 8$	$-1$ $16$ $\log_5 \frac{1}{25}$ $\log_2 4^6$ $\log_{49} 7$