

EVALUATING LOGARITHMS

AUCTION

COMPETE TO BE ONE OF THE TWO WINNING TEAMS BY ACHIEVING ONE OF THE FOLLOWING GOALS:

- EARN THE MOST POINTS BY PURCHASING LOGARITHMIC EXPRESSIONS
- PURCHASE THE LARGEST NUMBER OF LOGARITHMIC EXPRESSIONS

EACH EXPRESSION IS WORTH THE NUMBER OF POINTS IT EVALUATES TO.
FOR EXAMPLE, IF A TEAM BUYS $\log_2 8$, THEN THE TEAM WILL RECEIVE 3 POINTS.

AUCTION RULES

- EACH TEAM BEGINS THE AUCTION WITH \$1000.
- THE OPENING BID FOR EACH LOT IS \$10.
- THE BID CAN ONLY BE RAISED IN INCREMENTS OF \$10.

$$M + A + T + H = \text{love}$$

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EVALUATING LOGARITHMS

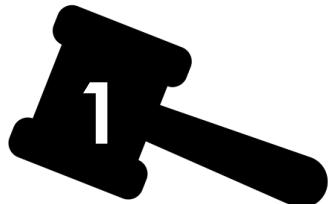
AUCTION CATALOG

1	$\log 1000$	2	$\log_{\frac{1}{3}} \frac{1}{243}$	3	$\ln \sqrt[3]{e}$	4	$\log_3 1$
5	$\log_3 27$	6	$\ln e^4$	7	$\log_5 25$	8	$\log_{100} 100$
9	$\log_3 81$	10	$\ln \frac{1}{e}$	11	$\log_{\sqrt{2}} 1$	12	$\log_2 128$
13	$\ln e$	14	$\log_9 729$	15	$\log_7 \sqrt[5]{7}$	16	$\log_{81} 9$
17	$\ln \frac{1}{e^2}$	18	$\log_2 64$	19	$\log_7 \sqrt{7}$	20	$\log_8 \frac{1}{64}$
21	$\log_7 \frac{1}{7}$	22	$\ln \sqrt{e}$	23	$\log_{\sqrt{2}} 4$	24	$\log_{\sqrt{3}} 3$
25	$\log_6 216$	26	$\log_3 \frac{1}{9}$	27	$\ln e^6$	28	$\log 100$

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$\log 1000$



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$$\log_3 \frac{1}{243} = -1$$



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$$\ln \sqrt[3]{e}$$



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$$\log_3 1$$



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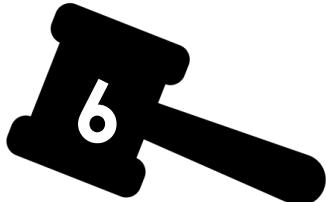
$$\log_3 27$$



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$$\ln e^4$$



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$$\log_5 25$$



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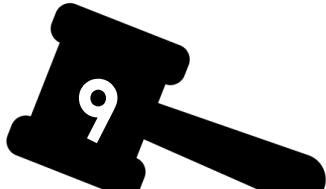
$$\log_{100} 100$$



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$$\log_3 81$$



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$$\ln - \frac{1}{e}$$



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$$\log_{\sqrt{2}} 1$$



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$$\log_2 128$$



EVALUATING
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$\ln e$



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$$\log_9 729$$



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$$\log_7 \sqrt[5]{7}$$



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$$\log_{81} 9$$



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$$\ln \frac{1}{e^2}$$



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$$\log_2 64$$



EVALUATING
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$$\log_7 \sqrt{7}$$



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$$\log_8 \frac{1}{64}$$



EVALUATING LOGARITHMS

AUCTION

$$\log_7 \frac{1}{7}$$



EVALUATING
LOGARITHMS

AUCTION

$\ln \sqrt{e}$



EVALUATING
LOGARITHMS

AUCTION

$$\log_{\sqrt{2}} 4$$



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LOGARITHMS

AUCTION

$$\log_{\sqrt{3}} 3$$



EVALUATING
LOGARITHMS

AUCTION

$$\log_6 216$$



EVALUATING LOGARITHMS

AUCTION

$$\log_3 \frac{1}{9}$$



EVALUATING
LOGARITHMS

AUCTION

$$\ln e^6$$



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LOGARITHMS

AUCTION

log 100

