ALGEBRA 2 HONORS
PRECALCULUS

LOGARITHM SHUFFLE

FREEBIE!

$\log_{1/2} 32$

$\log_{\sqrt{2}} 8$

15

49

$\log_3 243 = x$

7

$\log_6 x = 3$

1/2

5

3

$\log_5 x = 4$

$\log_x 27 = \dfrac{3}{4}$

$\log_8 1$

11

6

$\log_{\sqrt{2}} \dfrac{1}{4} = x$
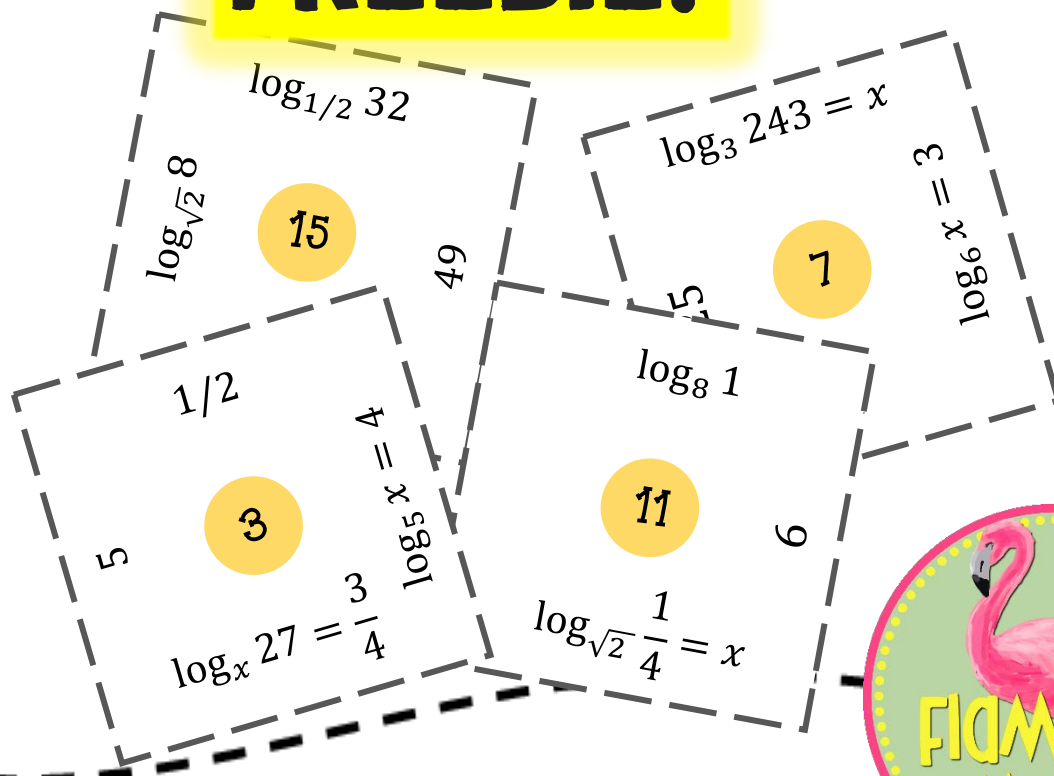
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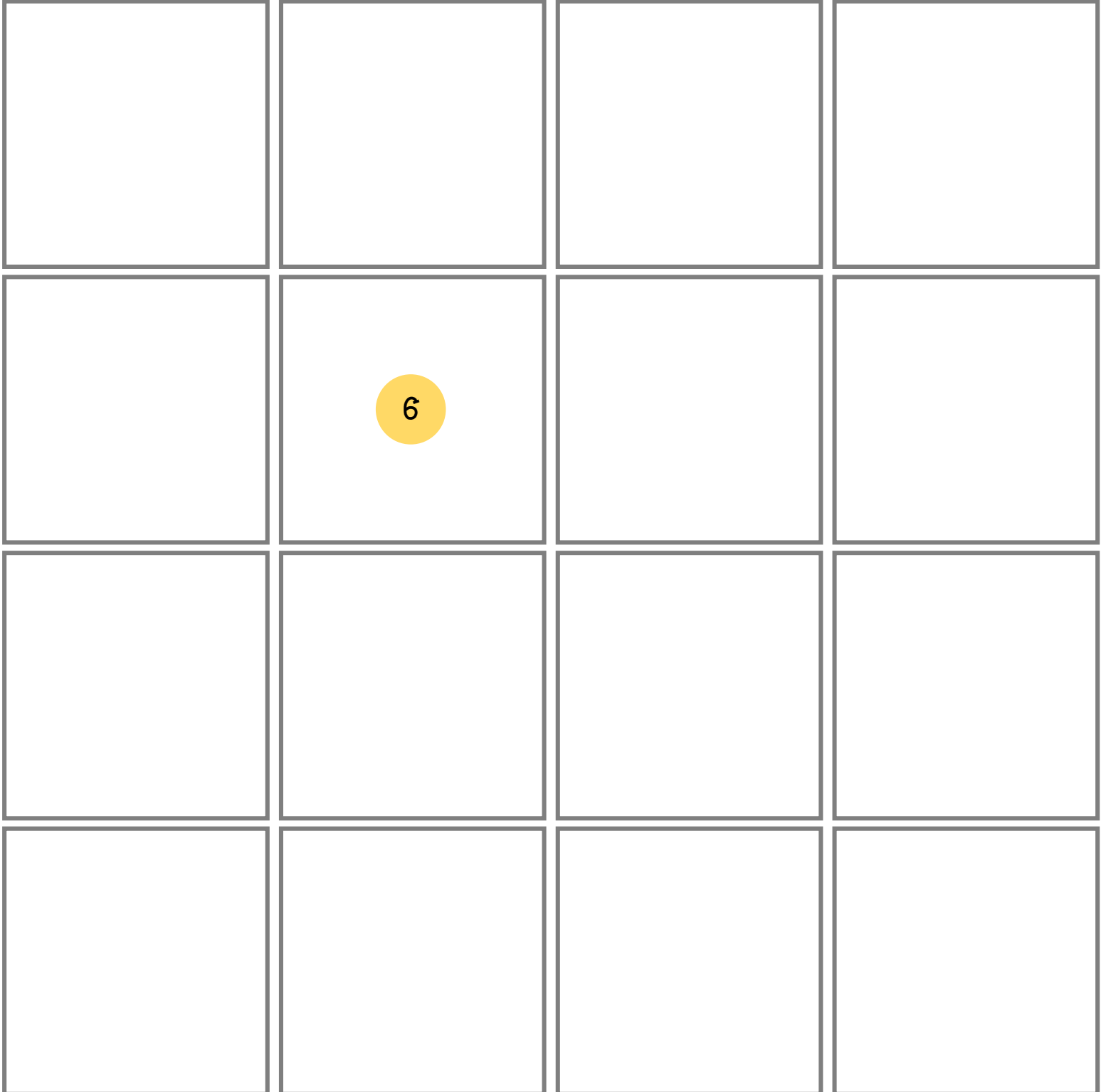
LOGARITHMIC SHUFFLE

Here is a FREE focused practice to help students solve basic logarithmic expressions and equations. Simply copy the activity on one sheet and the solution set on another page. Students can work cooperatively or alone. They will glue or tape the cards on the solution page. There is rigor in the exercise to challenge your brightest students.

Visit my store for more products for your ALGEBRA 2, PRECALCULUS, and AP CALCULUS students.

 I appreciate your comments, suggestions, and ideas.

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.

Card 1 (center: 1)
- Top: 2/3
- Left: 3/2
- Right: $\log_8 x = \dfrac{1}{6}$
- Bottom: $\log_{12} 12$

Card 2 (center: 2)
- Top: $\log_x \dfrac{1}{25} = -\dfrac{2}{3}$
- Left: −3
- Right: −2
- Bottom: $\log_7 7^4$

Card 3 (center: 3)
- Top: 1/2
- Left: 5
- Right: $\log_5 x = 4$
- Bottom: $\log_x 27 = \dfrac{3}{4}$

Card 4 (center: 4)
- Top: −4
- Left: $\log 100$
- Right: $\dfrac{1}{\log_3 27}$
- Bottom: 5

Card 5 (center: 5)
- Top: 8
- Left: $\log 0.00001$
- Right: $\log_x \sqrt{5} = \dfrac{1}{4}$
- Bottom: 216

Card 6 (center: 6)
- Top: $\log_x 64 = 3$
- Left: 10
- Right: $\log_9 27$
- Bottom: −5

Card 7 (center: 7)
- Top: $\log_3 243 = x$
- Left: 25
- Right: $\log_6 x = 3$
- Bottom: 4

Card 8 (center: 8)
- Top: $\log 1000$
- Left: $\sqrt{3}/3$
- Right: $\log_{25} 5$
- Bottom: −2/3

Card 9 (center: 9)
- Top: 81
- Left: $\log 0.1$
- Bottom: $\log_3 27$

Card 10 (center: 10)
- Top: $\log_6 x = 3$
- Left: −5
- Right: $\log_6 6^{10}$
- Bottom: 0

Card 11 (center: 11)
- Top: $\log_8 1$
- Right: 6
- Bottom: $\log_{\sqrt{2}} \dfrac{1}{4} = x$

Card 12 (center: 12)
- Top: 5
- Left: 216
- Right: $\log_x 3 = -2$
- Bottom: $\log_8 4$

Card 13 (center: 13)
- Top: $\log_{\frac{1}{8}} 4 = x$
- Left: $\sqrt{2}$
- Right: $\sqrt{3}$
- Bottom: $\log_{25} 5$

Card 14 (center: 14)
- Top: 1
- Left: $\log_x 7 = \dfrac{1}{2}$
- Right: $\log_2 32 = x$
- Bottom: 12

Card 15 (center: 15)
- Top: $\log_{1/2} 32$
- Left: $\log_{\sqrt{2}} 8$
- Right: 49
- Bottom: 125

Card 16 (center: 16)
- Top: $\log_2 4^6$
- Left: $\dfrac{1}{\log_5 25}$
- Right: −1
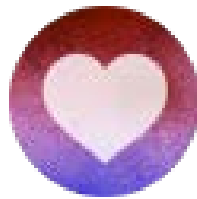- Bottom: $\log_{49} 7$

Logarithmic Expressions Shuffle

Directions: Move each piece in the puzzle until every side has a matching expression for the logarithms. Block #6 is in the correct location.

Row 1:

Block 5 — top: 8; left: $\log 0.00001$; right: $\log_x \sqrt{5} = \frac{1}{4}$; bottom: 216

Block 7 — top: $\log_3 243 = x$; left: 25; right: $\log_6 x = 3$; bottom: 4

Block 12 — top: 5; left: 216; right: $\log_x 3 = -2$; bottom: $\log_8 4$

Block 8 — top: $\log 1000$; left: $\sqrt{3}/3$; right: $\log_{25} 5$; bottom: $-2/3$

Row 2:

Block 10 — top: $\log_6 x = 3$; left: -5; right: $\log_6 6^{10}$; bottom: 0

Block 6 — top: $\log_x 64 = 3$; left: 10; right: $\log_9 27$; bottom: -5

Block 1 — top: $2/3$; left: $3/2$; right: $\log_8 x = \frac{1}{6}$; bottom: $\log_{12} 12$

Block 13 — top: $\log_{\frac{1}{8}} 4 = x$; left: $\sqrt{2}$; right: $\sqrt{3}$; bottom: $\log_{25} 5$

Row 3:

Block 11 — top: $\log_8 1$; right: 6; bottom: $\log_{\sqrt{2}} \frac{1}{4} = x$

Block 15 — top: $\log_{1/2} 32$; left: $\log_{\sqrt{2}} 8$; right: 49; bottom: 125

Block 14 — top: 1; left: $\log_x 7 = \frac{1}{2}$; right: $\log_2 32 = x$; bottom: 12

Block 3 — top: $1/2$; left: 5; right: $\log_5 x = 4$; bottom: $\log_x 27 = \frac{3}{4}$

Row 4:

Block 4 — top: -4; left: $\log 100$; right: $\log_3 \frac{1}{27}$; bottom: 5

Block 2 — top: $\log_x \frac{1}{25} = -\frac{2}{3}$; left: -3; right: -2; bottom: $\log_7 7^4$

Block 16 — top: $\log_2 4^6$; left: $\log_5 \frac{1}{25}$; right: -1; bottom: $\log_{49} 7$

Block 9 — top: 81; left: $\log 0.1$; bottom: $\log_3 27$

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