ESCAPE ROOM



Digital Fun
for Google Drive



Exponential & Logarithmic Functions

Exponential & Logarithmic Functions Escape Room



KEY CONCEPTS/TOPICS:

1. Solve exponential equations
2. Solve logarithmic equations
3. Use Properties of Logarithms to simplify expressions.
4. Identify extraneous solutions
5. Analyze exponential functions and characteristics

GENERAL DIRECTIONS:

Students work five Break Out Rooms related to Exponential & Logarithmic Functions using Google Slides™ and Google Forms™.

Product Overview

Exponential & Logarithmic Functions Escape Room

This is a digital activity that is designed to help your PreCalculus students review key concepts related to solving both exponential and logarithmic equations, identifying extraneous solutions, simplifying expressions using properties of logarithms, and finding key characteristics related to logarithmic functions. There are 20 questions in the activity, with five Break Out Rooms. When the four questions are resolved for each room, students will choose their answers from an answer bank and record the 4 letters into a Google Form™ in order to advance to the next Break Out Room. When the activity is complete, a Congratulations Page will be displayed.

Students will be provided an individual worksheet to record their work for accountability.

About this Activity:

Your PreCalculus students will have 5 Break-Out Rooms, containing 4 questions in each room, related to concepts in the Exponential & Logarithmic Functions unit. There are a wide variety of questions that include the following operations:

1. Solve exponential equations
2. Solve logarithmic equations
3. Use Properties of Logarithms to simplify expressions.
4. Identify extraneous solutions
5. Analyze exponential functions and characteristics

Solutions will be found on the "Answer Choice" Bank in each Break-Out Room. Students will record the four-letter code on a Google Form in order to advance to the next room.

This is a fun approach to review Exponential & Logarithmic Functions and Equations before the end of the unit on Exponential & Logarithmic Functions.

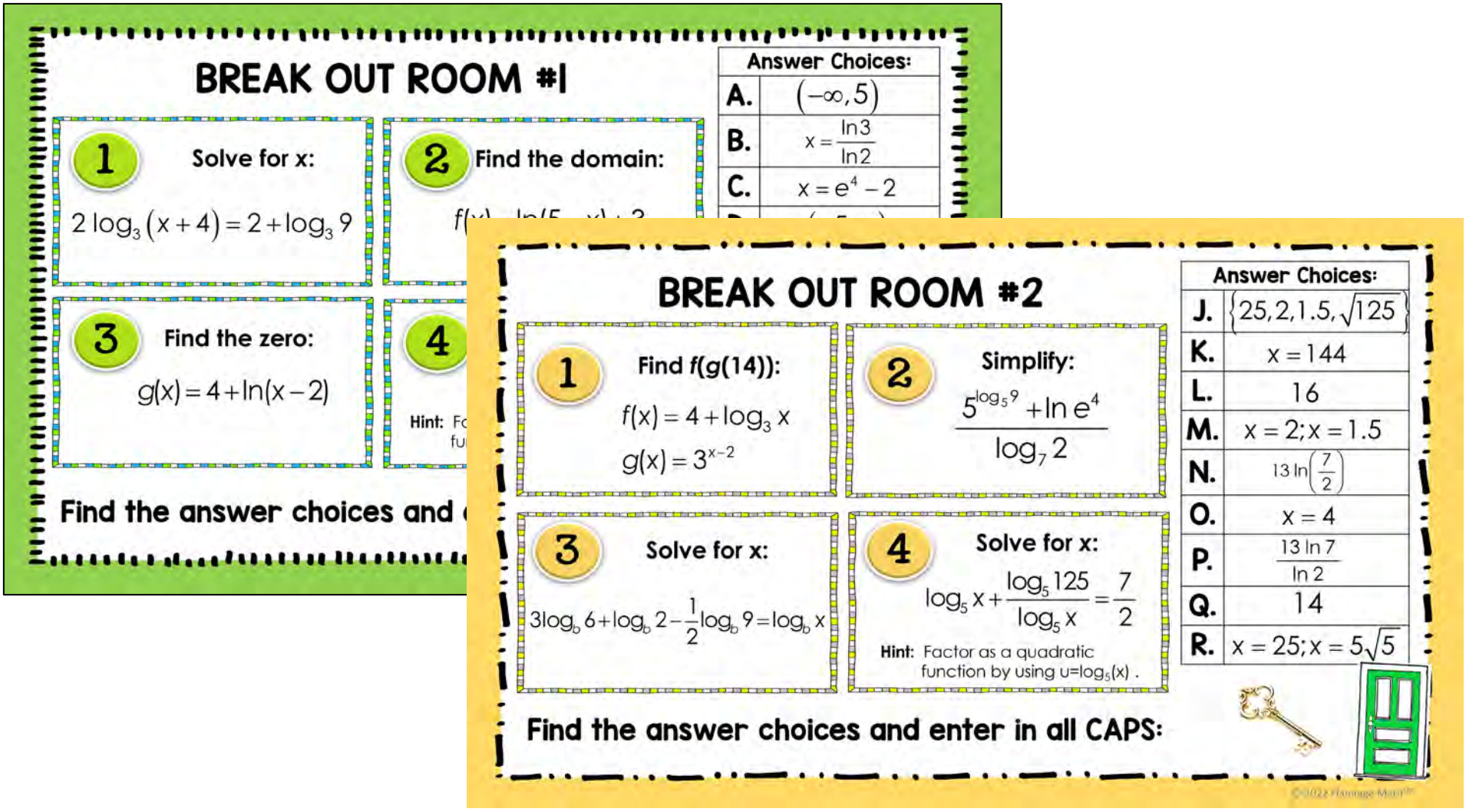
An answer key is provided as well as a completed solution set.

Have a wonderful week!

Jean

Product Pages

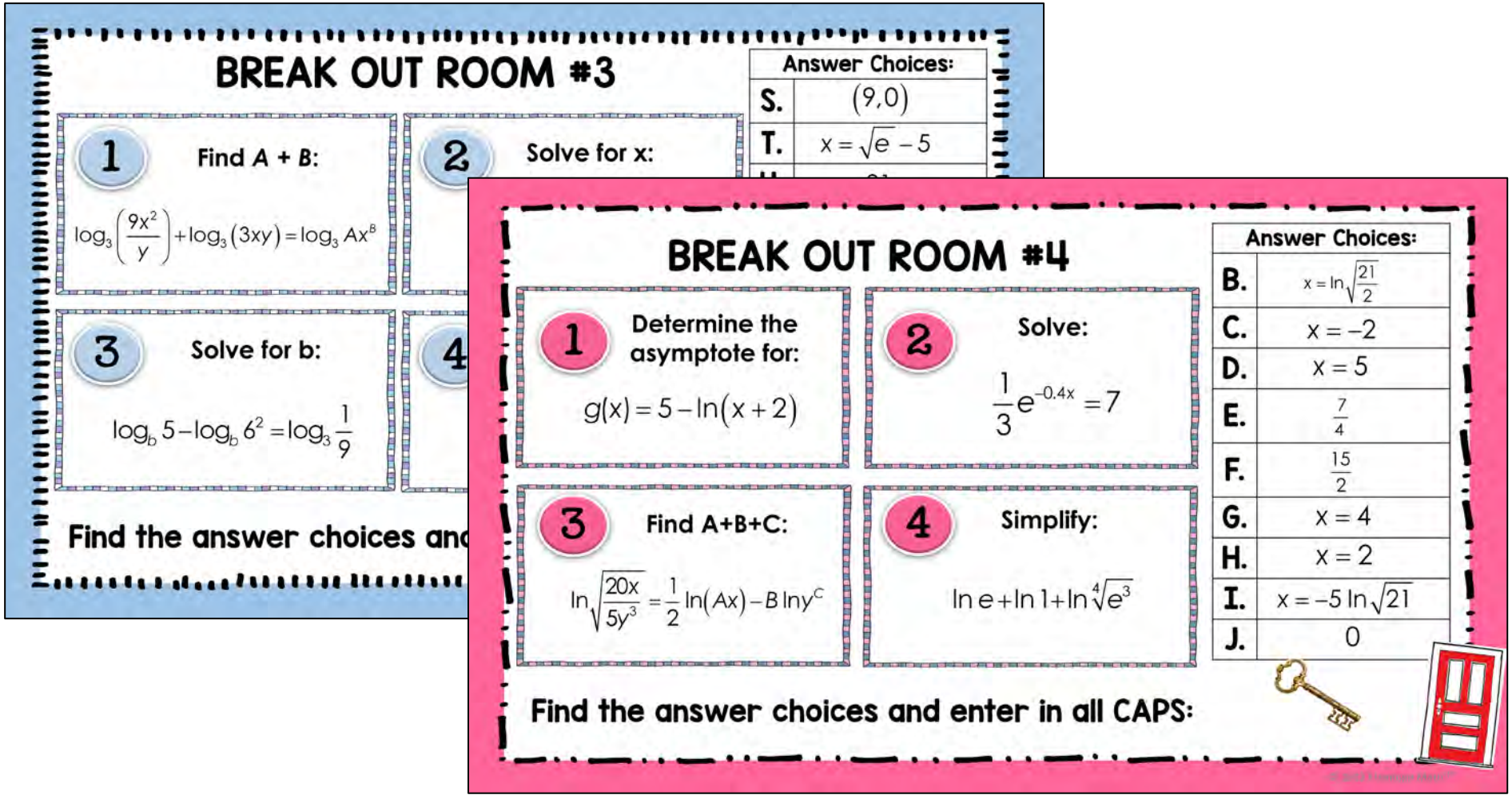
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Students love Escape Rooms!

Product Pages

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BREAK OUT ROOM #3

Answer Choices:	
S.	(9,0)
T.	$x = \sqrt{e} - 5$

1 Find A + B:

$$\log_3\left(\frac{9x^2}{y}\right) + \log_3(3xy) = \log_3 Ax^B$$

2 Solve for x:

3 Solve for b:

$$\log_b 5 - \log_b 6^2 = \log_3 \frac{1}{9}$$

4

Find the answer choices and

BREAK OUT ROOM #4

Answer Choices:	
B.	$x = \ln\sqrt{\frac{21}{2}}$
C.	$x = -2$
D.	$x = 5$
E.	$\frac{7}{4}$
F.	$\frac{15}{2}$
G.	$x = 4$
H.	$x = 2$
I.	$x = -5\ln\sqrt{21}$
J.	0

1 Determine the asymptote for:

$$g(x) = 5 - \ln(x+2)$$

2 Solve:

$$\frac{1}{3}e^{-0.4x} = 7$$

3 Find A+B+C:

$$\ln\sqrt{\frac{20x}{5y^3}} = \frac{1}{2}\ln(Ax) - B\ln y^C$$

4 Simplify:

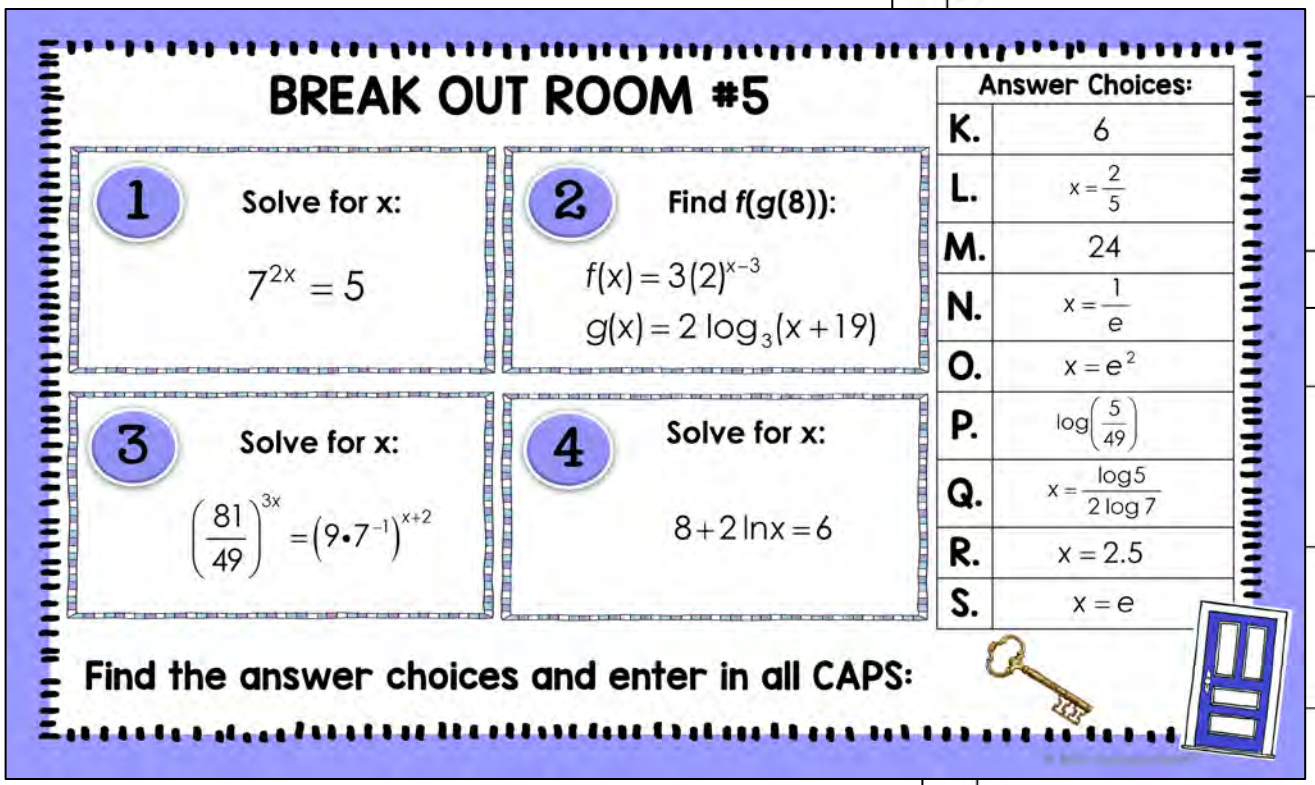
$$\ln e + \ln 1 + \ln\sqrt[4]{e^3}$$

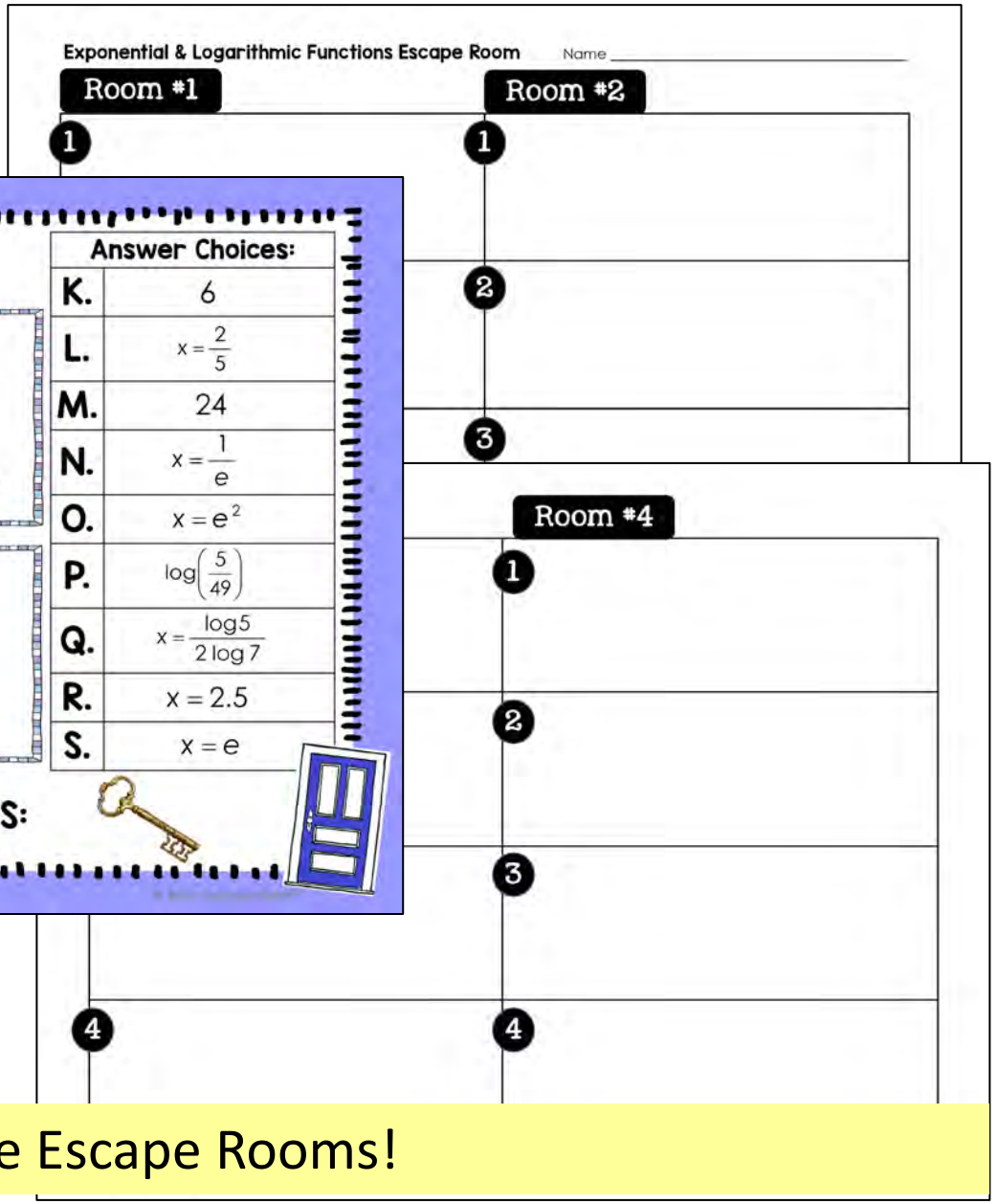
Find the answer choices and enter in all CAPS:

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