	PREVIEW	CLOSE
Quiz: Evaluating Exponential Functions		

#### Question 1a of 15 (3 Evaluating Exponential Functions 92055) Maximum Attempts: 1

Maximum Attempts:	I contraction of the second
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	16, 16/1
Question:	Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.

 $F(x) = 2^x$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
The correct answer is: 16.		ne correct answer is: 16.

# Question 1b of 15 (3 Evaluating Exponential Functions 296530)

1
Text Fill In Blank
2
false
81, 81/1
Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.

 $F(x) = 3^x$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
The correct answer is: 81.		ne correct answer is: 81.

## Question 1c of 15 (3 Evaluating Exponential Functions 296531)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	27, 27/1
Question:	Use the function below to find $F(3)$ . Use the slash ( / ) to enter fractions if necessary.

 $F(x) = 3^x$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 27.

## Question 2a of 15 (3 Evaluating Exponential Functions 92056)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	64, 64/1
Question:	Use the function below to find $F(6)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 2^x$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 64.

Question 2b of 15 (3 Evaluating Exponential Functions 296532)Maximum Attempts:1

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	32, 32/1
Question:	Use the function below to find $F(5)$ . Use the slash ( / ) to enter fractions if necessary.

 $F(x) = 2^x$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 32.

# Question 2c of 15 (3 Evaluating Exponential Functions 296533)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	64, 64/1
Question:	Use the function below to find $F(3)$ . Use the slash ( / ) to enter fractions if necessary.

 $F(x) = 4^x$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	The correct answer is: 64.	

# Question 3a of 15 (3 Evaluating Exponential Functions 92057)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false

Correct Answer: Question: 729/7, 104 1/7, 104-1/7, 104 & 1/7, 104 and 1/7, 104+1/7 Use the function below to find F(6). Use the slash ( / ) to enter fractions if necessary.

$$F(x) = \frac{1}{7} \bullet 3^x$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	The correct answer is: 729/7.	

# Question 3b of 15 ( 3 Evaluating Exponential Functions 296534 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	243/7, 34 5/7, 34-5/7, 34 & 5/7, 34 and 5/7, 34+5/7
Question:	Use the function below to find $F(5)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = \frac{1}{7} \bullet 3^x$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 243/7.

Question 3c of 15 (3 Evaluating Exponential Functions 296535)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2187/7, 312 3/7, 312-3/7, 312 & amp; 3/7, 312 and 3/7, 312+3/7

Question:

Use the function below to find F(7). Use the slash ( / ) to enter fractions if necessary.

$$F(x) = \frac{1}{7} \bullet 3^x$$

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 2187/7.	

## Question 4a of 15 (3 Evaluating Exponential Functions 92058)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	16/3, 5 1/3, 5-1/3, 5 & 1/3, 5 and 1/3, 5+1/3
Question:	Use the function below to find $F(2)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = \frac{1}{3} \bullet 4^x$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 16/3.

# Question 4b of 15 ( 3 Evaluating Exponential Functions 296536 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	64/3, 21 1/3, 21-1/3, 21 & 1/3, 21 and 1/3, 21+1/3
Question:	Use the function below to find $F(3)$ . Use the slash ( / ) to enter fractions

if necessary.

$$F(x) = \frac{1}{3} \bullet 4^x$$

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 64/3.

# Question 4c of 15 (3 Evaluating Exponential Functions 296537)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	256/3, 85 1/3, 85-1/3, 85 & 1/3, 85 and 1/3, 85+1/3
Question:	Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = \frac{1}{3} \bullet 4^x$$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 256/3.

# Question 5a of 15 (3 Evaluating Exponential Functions 92059)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7/6561
Question:	Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.



#### Question 5b of 15 (3 Evaluating Exponential Functions 296538)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7/729
Question:	Use the function below to find $F(3)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 7 \cdot \left(\frac{1}{9}\right)^x$$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 7/729.

#### Question 5c of 15 (3 Evaluating Exponential Functions 296539)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7/59049
Question:	Use the function below to find $F(5)$ . Use the slash ( / ) to enter fractions

if necessary.

$$F(x) = 7 \cdot \left(\frac{1}{9}\right)^x$$

Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 7/59049.

# Question 6a of 15 (3 Evaluating Exponential Functions 92060)

Question Type:         Text Fill In Blank	
Maximum Score: 2	
Is Case Sensitive: false	
<b>Correct Answer:</b> 5/7, 35/49	
<b>Question:</b> Use the function below to find <i>F</i> (2). Use the if necessary.	he slash ( / ) to enter fractions

$$F(x) = 35 \bullet \left(\frac{1}{7}\right)^x$$

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5/7.

Question 6b of 15 (3 Evaluating Exponential Functions 296540)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5/49, 35/343

Question:

Use the function below to find F(3). Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 35 \bullet \left(\frac{1}{7}\right)^x$$

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5/49.

## Question 6c of 15 (3 Evaluating Exponential Functions 296541)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5/343, 35/2401
Question:	Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 35 \bullet \left(\frac{1}{7}\right)^x$$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5/343.

Question 7a of 15 (3 Evaluating Exponential Functions 296529)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	125, 125/1

Question:

Use the function below to find F(3). Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 5^x$$

Attemp	Attempt Incorrect Feedback	
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 125.

## Question 7b of 15 ( 3 Evaluating Exponential Functions 296542 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	243, 243/1
Question:	Use the function below to find $F(5)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 3^x$$

Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 243.	

### Question 7c of 15 (3 Evaluating Exponential Functions 296543)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	625, 625/1
Question:	Use the function below to find $F(4)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(x) = 5^{x}$$

Attempt Incorrect Feedback			
1st			
Correct Feedback			
	Gl	obal Incorrect Feedback	
The correct answer is: 625.			

# Question 8a of 15 (3 Evaluating Exponential Functions 119534)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/4, 0.25, .25
Question:	Use the function below to find $F(1)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(t) = 2 \bullet \frac{1}{2^{3t}}$$

Attemp	Attempt Incorrect Feedback	
1st		
Correct Feedback		
Global Incorrect Feedback		
	The correct answer is: 1/4.	

# Question 8b of 15 ( 3 Evaluating Exponential Functions 296544 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/2, 0.5, .5
Question:	Use the function below to find $F(1)$ . Use the slash ( / ) to enter fractions if necessary.

Attemp	pt Incorrect Feedback	
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 1/2.	

# Question 8c of 15 ( 3 Evaluating Exponential Functions 296545 )

1
Text Fill In Blank
2
false
0.125, 1/8, .125
Use the function below to find $F(2)$ . Use the slash ( / ) to enter fractions if necessary.

$$F(t) = 2 \bullet \frac{1}{2^{3t}}$$

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Global Incorrect Feedback		
The correct answer is: 1/8.		ne correct answer is: 1/8.

## Question 9a of 15 (1 Evaluating Exponential Functions 119536)

Question:	ncreasing the number of times an investment is compounded in a year oes <i>not</i> affect the dollar amount in the account.	
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice		Feedback	
Α.	True			
*B.	False			
		Global Incorrec	ct Feedback	

Global Incorrect Feedback

#### Question 9b of 15 (1 Evaluating Exponential Functions 296546)

Maximum Attempts: 1 Question Type: Tr

True-False

2

Maximum Score:

Question:

Increasing the number of times an investment is compounded in a year affects the dollar amount in the account.

	Choice	Feedback
* <b>A</b> .	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 9c of 15 (1 Evaluating Exponential Functions 296547)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	Decreasing the number of times an investment is compounded in a year does <i>not</i> affect the dollar amount in the account.

	Choice	Feedback
Α.	True	
*B.	False	

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 10a of 15 (1 Evaluating Exponential Functions 119539)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>growth</i> function represents a quantity that has a constant doubling time.

	Choice	Feedback
*A.	True	
В.	False	

#### **Global Incorrect Feedback**

The correct answer is: True.

## Question 10b of 15 (1 Evaluating Exponential Functions 296548)

1

Maximum Attempts:

 Question Type:
 True-False

 Maximum Score:
 2

 Question:
 An exponential growth function represents a quantity that has a constant halving time.

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback

The correct answer is: False.

#### Question 10c of 15 (1 Evaluating Exponential Functions 296549)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>growth</i> function represents a quantity that has an increasing doubling time.

	Choice	Feedback
Α.	True	
*B.	False	

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 11a of 15 (1 Evaluating Exponential Functions 119540)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>decay</i> function represents a quantity that has a constant doubling time.

	Choice	Feedback
Α.	True	

**B.** False

Global Incorrect Feedback

The correct answer is: False.

## Question 11b of 15 (1 Evaluating Exponential Functions 296550)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>decay</i> function represents a quantity that has a decreasing halving time.

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback

The correct answer is: False.

#### Question 11c of 15 (1 Evaluating Exponential Functions 296551)

Maximum Attempts:1Question Type:True-FalseMaximum Score:2Question:An exponential decay function represents a quantity that has a constant<br/>halving time.

	Choice	Feedback
*A.	True	
В.	False	
	Global Incorrect Feedback	

The correct answer is: True.

Question 12a of 15 (1 Evaluating Exponential Functions 119785)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	An exponential function is written as $F(x) = a \bullet b^x$ , where the coefficient <i>a</i> is a constant, the base <i>b</i> is but not equal to 1, and the exponent <i>x</i> is any number.

	Choice	Feedback
Α.	real	
В.	negative	
C.	an integer	
*D.	positive	
	F	

Global Incorrect Feedback

The correct answer is: positive.

#### Question 12b of 15 (1 Evaluating Exponential Functions 296552)

1

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:An exponential function is written as  $F(x) = a \bullet b^x$ , where the coefficient a is \_\_\_\_\_, the base b is positive but not equal to 1, and the exponent x is any number.

	Choice	Feedback
*A.	a constant	
В.	an integer	
C.	an exponent	
D.	a variable	

Global Incorrect Feedback The correct answer is: a constant.

Question 12c of 15 (1 Evaluating Exponential Functions 296553)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	2	
Question:	An exponential function is written as $F(x) = a \bullet b^x$ , where the coefficient <i>a</i> is a constant, the base <i>b</i> is positive but not equal to 1, and the exponent <i>x</i> is	

	Choice	Feedback
Α.	negative	
*B.	any number	
C.	an integer	
D.	positive	

#### **Global Incorrect Feedback**

The correct answer is: any number.

#### Question 13a of 15 (2 Evaluating Exponential Functions 119787)

Maximum Attempts:

Multiple Choice

1

2

Maximum Score:

**Question Type:** 

Question:

Exponential growth and decay functions are written in standard form as  $F(t) = A_0 \bullet b^{kt}$ , where  $A_0$  is an initial amount, *k* is the growth rate, and *t* is \_\_\_\_\_.

	Choice	Feedback
Α.	temperature	
В.	total	
*C.	time	
D.	altitude	

Global Incorrect Feedback

The correct answer is: time.

#### Question 13b of 15 (2 Evaluating Exponential Functions 296554)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Exponential growth and decay functions are written in standard form as $F(t) = A_0 \bullet b^{kt}$ , where $A_0$ is an initial amount, k is the growth rate, and t is

	Choice	Feedback
Α.	temperature	
В.	total	
*C.	time	
D.	altitude	

#### Global Incorrect Feedback

The correct answer is: time.

Question 13c of 15 (2 Evaluating Exponential Functions 296555)

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Exponential growth and $\Gamma(t) = A + b^{kt}$ where $h^{kt}$

Exponential growth and decay functions are written in standard form as  $F(t) = A_0 \bullet b^{kt}$ , where  $A_0$  is an initial amount, *k* is the growth rate, and *t* is \_\_\_\_\_.

	Choice	Feedback
Α.	temperature	
В.	total	
*C.	time	
D.	altitude	

Global Incorrect Feedback	
The correct onewer is, time	

The correct answer is: time.

## Question 14a of 15 (2 Evaluating Exponential Functions 119545)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>growth</i> function describes an amount that decreases exponentially over time.

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback

The correct answer is: False.

Question 14b of 15 (2 Evaluating Exponential Functions 296556)

Choico		Foodback
Question:	An exponential <i>growth</i> function describes an amount that increases constantly over time.	
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice	Feedback	
*A.	True		
В.	False		

Global Incorrect Feedback

#### Question 14c of 15 (2 Evaluating Exponential Functions 296557)

Maximum Attempts: 1 True-False Question Type: Maximum Score: 2 An exponential *growth* function describes an amount that decreases Question: constantly over time.

	Choice	Feedback
Α.	True	
*B.	False	

**Global Incorrect Feedback** The correct answer is: False.

# Question 15a of 15 (2 Evaluating Exponential Functions 119546)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>decay</i> function describes an amount that decreases exponentially over time.

	Choice	Feedback
*A.	True	
В.	False	

#### **Global Incorrect Feedback**

The correct answer is: True.

#### Question 15b of 15 (2 Evaluating Exponential Functions 296558)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	An exponential <i>decay</i> function describes an amount that increases exponentially over time.

	Choice	Feedback
Α.	True	
*B.	False	

#### **Global Incorrect Feedback**

The correct answer is: False.

#### Question 15c of 15 (2 Evaluating Exponential Functions 296559)

Maximum Attempts:

Question Type: True-False

1

Maximum Score: 2

**Question:** An exponential *decay* function describes an amount that decreases exponentially over time.

	Choice	Feedback
*A.	True	
В.	False	
В.		

#### Global Incorrect Feedback

The correct answer is: True.

	PREVIEW	CLOSE
Quiz: Graphs of Exponential Functions		

## Question 1a of 15 (2 Graphs of Exponential Functions 91800)

Maximum Attempts:

**Question Type:** True-False

1

Maximum Score: 2

Question:

<sup>2</sup> The domain of the function given below is the set of all real numbers

greater than  $\frac{1}{2}$  .



	Choice		Feedback	
Α.	True			
*B.	False			
		Global Incorrec	ct Feedback	

The correct answer is: False.

### Question 1b of 15 (2 Graphs of Exponential Functions 298216)

Maximum Attempts:1Question Type:True-FalseMaximum Score:2Question:The domain of the function given below is the set of all real numbers.

 $F(x) = \left(\frac{1}{2}\right)^x$ 

	Choice	Feedback
* <b>A</b> .	True	
В.	False	

#### Global Incorrect Feedback

The correct answer is: True.

Question 1c of 15 (2 Graphs of Exponential Functions 298217)

Maximum Attempts:

Question Type: True-False

1

Maximum Score:2Question:The domain

The domain of the function given below is the set of all real numbers greater than 1.

 $F(x) = \left(\frac{1}{2}\right)^x$ 



The correct answer is: False.

#### Question 2a of 15 (2 Graphs of Exponential Functions 91801)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The domain of the function given below is the set of all real numbers.
Question Type: Maximum Score: Question:	True-False 2 The domain of the function given below is the set of all real numb

 $F(x) = \left(\frac{8}{3}\right)^x$ 

	Choice	Feedback
* <b>A</b> .	True	
В.	False	

#### Global Incorrect Feedback

The correct answer is: True.

#### Question 2b of 15 (2 Graphs of Exponential Functions 298218)

Maximum Attempts:1Question Type:True-FalseMaximum Score:2Question:The domain of the function given below is the set of all real numbers greater than 1.

 $F(x) = \left(\frac{8}{3}\right)^x$ 

	Choice	Feedback
Α.	True	

**\*B.** False

**Global Incorrect Feedback** 

The correct answer is: False.

# Question 2c of 15 (2 Graphs of Exponential Functions 298219)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The domain of the function given below is the set of all real numbers $\frac{B}{3}$ .
	$F(x) = \left(\frac{8}{3}\right)^{x}$

	Choice	Feedback
Α.	True	
*B.	False	

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 3a of 15 (2 Graphs of Exponential Functions 91802)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers greater than 6.

$$F(x) = 6 + 2^x$$

	Choice	Feedback
* <b>A</b> .	True	
В.	False	

Globa	lIncorre	ct Feedback	

The correct answer is: True.

Question 3b of 15 (2 Graphs of Exponential Functions 298220)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers greater than 7.

$$F(x) = 7 + 3^x$$

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback	
The correct answer is: True.	

#### Question 3c of 15 (2 Graphs of Exponential Functions 298221)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers greater than 5.

$$F(x) = 5 + 4^x$$

	Choice	Feedback
*A.	True	
В.	False	



The correct answer is: True.

#### Question 4a of 15 (2 Graphs of Exponential Functions 91803)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers less than 8.

 $F(x) = 8 - 3^{\times}$ 

	Choice	Feedback
Α.	True	
*B.	False	

#### Global Incorrect Feedback

The correct answer is: False.

#### Question 4b of 15 (2 Graphs of Exponential Functions 298222)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers less than 4.

 $F(x) = 4 - 4^{\times}$ 

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback

The correct answer is: False.

#### Question 4c of 15 (2 Graphs of Exponential Functions 298223)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The range of the function given below is the set of all positive real numbers less than 7.

 $F(x) = 7 - 3^{x}$ 

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback		
The correct answer is: False.		

#### Question 5a of 15 (2 Graphs of Exponential Functions 91804)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

$$F(x) = \left(\frac{3}{5}\right)^x$$

Correct Answers:

	Cho	Choice		
*A.	The	The range of $F(x)$ is $y > 0$ .		
В.	The	The domain of $F(x)$ is $x > 0$ .		
*C.	The	The y-intercept is (0, 1).		
D.	It is	increasing.		
*E.	It is	decreasing.		
F.	The <i>x</i> -intercept is (1, 0).			
Atte	mpt	Incorrect Feedback		
1st	1st			
	Correct Feedback			
	G	lobal Incorrect Feedback		
	TI	he correct answers are:		
		<ul> <li>The range of F(x) is y &gt; 0.</li> <li>The y-intercept is (0, 1).</li> <li>It is decreasing.</li> </ul>		

# Question 5b of 15 ( 2 Graphs of Exponential Functions 298224 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $f(x) = \left(\frac{3}{7}\right)^x$ 

**Correct Answers:** 

	Choice	
* <b>A</b> .	The range of $F(x)$ is $y > 0$ .	
В.	The domain of $F(x)$ is $x > 0$ .	

*C.	The y-intercept is (0, 1).		
D.	It is increasing.		
*E.	It is decreasing.		
F.	The <i>x</i> -intercept is (1, 0).		
Atte	mpt	Incorrect Feedback	
1st	1st		
	Correct Feedback		
	G	lobal Incorrect Feedback	
	The correct answers are:		
		<ul> <li>The range of F(x) is y &gt; 0.</li> <li>The y-intercept is (0, 1).</li> <li>It is decreasing.</li> </ul>	

Question 5c of 15 (2 Graphs of Exponential Functions 298225)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $f(x) = \left(\frac{2}{5}\right)^x$ 

**Correct Answers:** 

	Choice			
*A.	The	he range of $F(x)$ is $y > 0$ .		
В.	The	domain of $F(x)$ is $x > 0$ .		
*C.	The	ne y-intercept is (0, 1).		
D.	It is	increasing.		
*E.	It is	decreasing.		
F.	The x-intercept is (1, 0).			
Attempt		Incorrect Feedback		
1st				

Correct Feedback
Global Incorrect Feedback
The correct answers are:
<ul> <li>The range of F(x) is y &gt; 0.</li> <li>The y-intercept is (0, 1).</li> <li>It is decreasing.</li> </ul>

# Question 6a of 15 ( 2 Graphs of Exponential Functions 91805 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.



#### **Correct Answers:**

	Choice
Α.	It is decreasing.
В.	The range of $F(x)$ is $y > 4$ .
*C.	The domain of $F(x)$ is all real numbers.
*D.	The y-intercept is (0, 3).
Ε.	The y-intercept is (0, 4).
*F.	It is increasing.

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
Global Incorrect Feedback			
	GI	obal Incorrect Feedback	
	GI Th	obal Incorrect Feedback e correct answers are:	

• It is increasing.

#### Question 6b of 15 (2 Graphs of Exponential Functions 298226)

Maximum Attempts: 1 Question Type: Multiple Response Maximum Score: 2 Question: Which facts are true for the graph of the function below? Check all that apply.



#### **Correct Answers:**

	Choice
Α.	It is decreasing.
В.	The range of $F(x)$ is $y > 5$ .
*C.	The domain of $F(x)$ is all real numbers.
*D.	The y-intercept is (0, 2).
E.	The y-intercept is (0, 5).
*F.	It is increasing.

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answers are:		
<ul> <li>The domain of F(x) is all real numb</li> <li>The <i>y</i>-intercept is (0, 2).</li> <li>It is increasing.</li> </ul>		<ul> <li>The domain of F(x) is all real numbers.</li> <li>The y-intercept is (0, 2).</li> <li>It is increasing.</li> </ul>	

#### Question 6c of 15 (2 Graphs of Exponential Functions 298227)

Maximum Attempts: 1 **Question Type:** Maximum Score: 2

Multiple Response

Question:

Which facts are true for the graph of the function below? Check all that apply.



#### **Correct Answers:**

	Choice		
Α.	It is decreasing.		
В.	The	range of $F(x)$ is $y > 5$ .	
*C.	The domain of <i>F</i> ( <i>x</i> ) is all real numbers.		
*D.	The	y-intercept is (0, 4).	
Ε.	The y-intercept is (0, 5).		
*F.	It is increasing.		
Attempt Incorrect Feedback			
1st			
Correct Feedback			
	G	lobal Incorrect Feedback	
	Т	he correct answers are:	

•	The domain of $F(x)$ is all real numbers

- The domain of *F*(*x*) is all real numbers.
  The *y*-intercept is (0, 5).
- It is increasing.

#### Question 7a of 15 (2 Graphs of Exponential Functions 91806)

1
Multiple Choice
2
The graph below could be the graph of which exponential function?

	Choice	Feedback
Α.	$F(x) = 3 \bullet (-1.4)^x$	
В.	$F(x) = 3^x$	
*C.	$F(x) = 3 \bullet (1.4)^x$	

D.	$F(x) = 3 \bullet (0,4)^{x}$	
υ.	$1(\Lambda) = 0 (0.4)$	

Global Incorrect Feedback

The correct answer is:  $F(x) = 3 \cdot (1.4)^{x}$ .

## Question 7b of 15 ( 2 Graphs of Exponential Functions 298228 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph below could be the graph of which exponential function?

	Choice	Feedback
*A.	$F(x) = 3 \bullet (1.7)^x$	
В.	$F(x) = 3^x$	
C.	$F(x) = 3 \bullet (-1.7)^x$	
D.	$F(x) = 3 \bullet (0.7)^x$	

#### Global Incorrect Feedback

The correct answer is:  $F(x) = 3 \cdot (1.7)^{x}$ .

#### Question 7c of 15 (2 Graphs of Exponential Functions 298229)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph below could be the graph of which exponential function?

	Choice	Feedback
Α.	$F(x) = 3 \bullet (-1.2)^x$	
В.	$F(x) = 3^x$	
C.	$F(x) = 3 \bullet (0.2)^x$	
*D.	$F(x) = 3 \bullet (1.2)^x$	

**Global Incorrect Feedback** The correct answer is:  $F(x) = 3 \cdot (1.2)^{x}$ .

## Question 8a of 15 (2 Graphs of Exponential Functions 91807)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:The graph below could be the graph of which exponential function?

 Choice
 Feedback

 A.
  $F(x) = 2 \cdot (2)^x$  Image: Constraint of the second sec

**Global Incorrect Feedback** The correct answer is:  $F(x) = 2 \cdot (0.5)^{x}$ .

#### Question 8b of 15 (2 Graphs of Exponential Functions 298230)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	The graph below could be the graph of which exponential function?

Ļ

	Choice	Feedback
*A.	$F(x) = 2 \bullet (0.7)^x$	
В.	$F(x) = 2^x$	
C.	$F(x) = 2 \bullet (5)^x$	
D.	$F(x) = 2 \bullet (1.4)^x$	

**Global Incorrect Feedback** The correct answer is:  $F(x) = 2 \cdot (0.7)^{x}$ .

Question 8c of 15 (2 Graphs of Exponential Functions 298231)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

The graph below could be the graph of which exponential function?



	Choice	Feedback
*A.	$F(x) = 2 \bullet (0.5)^x$	
В.	$F(x) = 2^x$	
C.	$F(x) = 2 \bullet (7)^x$	
D.	$F(x) = 2 \bullet (1.6)^x$	

Global Incorrect Feedback
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The correct answer is:  $F(x) = 2 \cdot (0.5)^{x}$ .

#### Question 9a of 15 (2 Graphs of Exponential Functions 119644)

<b>Constitution:</b> The range of $T(x) = 5 - 2$ is all positive	e real numbers.
<b>Oursetion:</b> The range of $F(x) = 5 \cdot 2^{x}$ is all positive	
Maximum Score: 2	
Question Type:True-False	
Maximum Attempts: 1	

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

## Question 9b of 15 (2 Graphs of Exponential Functions 327535)

	Choice		Feedback
Question:		The range of $F(x) = 6 \cdot 3^x$ is all positive real numbers.	
Maxi	mum Score:	2	
Ques	tion Type:	True-False	
Maxi	mum Attempts:	1	

	Choice	reedback
*A.	True	
В.	False	
-		

The correct answer is: True.

#### Question 9c of 15 (2 Graphs of Exponential Functions 327538)

Maximum Attempts:

Question Type:	True-False

1

2

Maximum Score:

Question:

The range of  $F(x) = 7 \bullet 4^x$  is all positive real numbers.

	Choice		Feedback	
* <b>A</b> .	True			
В.	False			
		<u></u>		

**Global Incorrect Feedback** 

The correct answer is: True.

#### Question 10a of 15 (2 Graphs of Exponential Functions 119646)

Maximum Attempts:	1	
Question Type:	True-False	
Maximum Score:	2	
Question:	$F(x) = \left(\frac{3}{4}\right)^{x}$ in the domain of	s all negative numbers
Choice		Feedback

	Choice		Геебраск	
Α.	True			
*B.	False			
		Global Incorreg	st Foodback	1

The correct answer is: False.

#### Question 10b of 15 (2 Graphs of Exponential Functions 327694)

Maximum Attempts:

Question Type:True-False

1

2

Maximum Score:

Question:

The domain of  $f(t) = \left(\frac{2}{3}\right)^{t}$  is all negative numbers.

	Choice		Feedback	
Α.	True			
*B.	False			
		Global Incorrec	t Feedback	

The correct answer is: False.

#### Question 10c of 15 (2 Graphs of Exponential Functions 298235)

Choice		Feedback
Question:	The domain of $f(x) = \left(\frac{2}{5}\right)^x$ is all r	negative numbers.
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback
The correct answer is: False.

#### Question 11a of 15 (2 Graphs of Exponential Functions 119649)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(0,a), y=a, 0,a
Question:	In general, the <i>y</i> -intercept of the function $F(x) = a \bullet b^x$ is the point

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
The correct answer is: (0, a).		ne correct answer is: (0, a).

## Question 11b of 15 ( 2 Graphs of Exponential Functions 298236 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(0,a), y=a, 0,a
Question:	In general, the y-intercept of the function $F(x) = a \bullet b^x$ is the point

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: (0, a).	

# Question 11c of 15 (2 Graphs of Exponential Functions 298237)

1
Text Fill In Blank
2
false
(0,a), y=a, 0,a
In general, the <i>y</i> -intercept of the function $F(x) = a \bullet b^x$ is the point

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: (0, a).	

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## Question 12a of 15 (2 Graphs of Exponential Functions 119652)

Maximum Attempts: 1

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	base
Question:	The value of the determines whether the graph of an exponential function increases or decreases from left to right.

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
Global Incorrect Feedback		
---------------------------	------------------------------	
	The correct answer is: base.	

# Question 12b of 15 (2 Graphs of Exponential Functions 298238)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	base
Question:	The value of the determines whether the graph of an exponential function increases or decreases from left to right.

Attempt Incorrect Feedback	
1st	
	Correct Feedback
	Global Incorrect Feedback
The correct answer is: base.	

# Question 12c of 15 (2 Graphs of Exponential Functions 298239)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	base
Question:	The value of the determines whether the graph of an exponential function increases or decreases from left to right.

Attempt Incorrect Feedback			
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
The correct answer is: base.			

Question 13a of 15 (2 Graphs of Exponential Functions 119655)

# Maximum Attempts: 1 Question Type: True-False Maximum Score: 2 Question: The base of an exponential function can be a negative number. Choice Facehoode

	Choice	Feedback
Α.	True	
*B.	False	

#### Global Incorrect Feedback

The correct answer is: False.

#### Question 13b of 15 ( 2 Graphs of Exponential Functions 298240 )

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The base of an exponential function can only be a positive number.

	Choice	Feedback
* <b>A</b> .	True	
В.	False	

Global Incorrect Feedback
The correct answer is: True.

#### Question 13c of 15 (2 Graphs of Exponential Functions 298241)

Maximum Attempts:	1
Question Type:	True-False

Maximum Score: 2

Question:

The base of an exponential function cannot be a negative number.

	Choice		Feedback	
*A.	True			
В.	False			
		Global Incorrec	ct Feedback	

The correct answer is: True.

Question 14a of 15 (2 Graphs of Exponential Functions 119656)

Maximum Attempts: 1

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	Х
Question:	A feature that is common to all exponential functions of the form $F(x) = b^x$ is that they have a common horizontal asymptote at theaxis.

Attempt Incorrect Feedback		Incorrect Feedback	
1st			
	С	orrect Feedback	
	Global Incorrect Feedback		
The correct answer is: x.			

# Question 14b of 15 (2 Graphs of Exponential Functions 298242)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	asymptote, asymtote, assymptote, assymtote, asimtote
Question:	A feature that is common to all exponential functions of the form $F(x) = b^x$ is that they have a common horizontal at the x-axis.

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: asymptote.	

# Question 14c of 15 (2 Graphs of Exponential Functions 298243)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	х
Question:	A feature that is common to all exponential functions of the form $F(x) = b^x$ is that they have a common horizontal asymptote at the

а	ХI	S.

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: x.	

# Question 15a of 15 (2 Graphs of Exponential Functions 119658)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	For all values of <i>a</i> and <i>b</i> that make $F(x) = a \bullet b^x$ a valid exponential function, the graph <i>always</i> has a horizontal asymptote at $y = 0$ .

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 15b of 15 (2 Graphs of Exponential Functions 298244)

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Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	For all values of <i>a</i> and <i>b</i> that make $F(x) = a \bullet b^x$ a valid exponential function, the graph <i>always</i> has a horizontal asymptote at $y = 0$ .

	Choice	Feedback
*A.	True	
В.	False	
	Global Incorre	ct Feedback

The correct answer is: True.

Question 15c of 15 ( 2 Graphs of Exponential Functions 298245 )Maximum Attempts:

Question Type:	True-False
Maximum Score:	2
Question:	For all values of <i>a</i> and <i>b</i> that make $F(x) = a \bullet b^x$ a valid exponential function, the graph <i>always</i> has a horizontal asymptote at $y = 0$ .

	Choice	Feedback
*A.	True	
В.	False	

#### Global Incorrect Feedback

The correct answer is: True.

	PREVIEW	CLOSE
Quiz: Logarithmic Functions		

# Question 1a of 15 (3 Logarithmic Functions 91845)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $4^{c} = 256$ 

	Choice	Feedback
*A.	$\log_4 256 = c$	
В.	$\log_{256} c = 4$	
C.	$\log_c 256 = 4$	
D.	$\log_4 c = 256$	

Global Incorrect Feedback

The correct answer is:  $\log_4 256 = c$ .

# Question 1b of 15 (3 Logarithmic Functions 299275)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $5^{c} = 250$ 

	Choice	Feedback
Α.	$\log_5 c = 250$	
В.	$\log_{250} c = 5$	
C.	$\log_c 250 = 5$	
*D.	$\log_5 250 = c$	

#### Global Incorrect Feedback

The correct answer is:  $\log_5 250 = c$ .

Question 1c of 15 ( 3 Logarithmic Functions 299277 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $5^{c} = 125$ 

	Choice	Feedback
Α.	$\log_5 c = 125$	
В.	$\log_{125} c = 5$	
C.	$\log_c 125 = 5$	
*D.	$\log_5 125 = c$	

Global Incorrect Feedback

The correct answer is:  $\log_5 125 = c$ .

# Question 2a of 15 ( 3 Logarithmic Functions 91846 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $2^{c} = 8$ 

	(
	<b>A</b> .
	* <b>B.</b>
	<b>C</b> .
	<b>D</b> .
-	<b>D</b> .

Global Incorrect Feedback

The correct answer is:  $\log_2 8 = c$ .

# Question 2b of 15 ( 3 Logarithmic Functions 299278 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

3 <sup>c</sup>	=	27
5	_	21

	Choice	Feedback
Α.	$\log_3 c = 27$	
В.	$\log_c 27 = 3$	
C.	$\log_{27} c = 3$	
*D.	$\log_3 27 = c$	

Global Incorrect Feedback

The correct answer is:  $\log_3 27 = c$ .

Question 2c of 15 ( 3 Logarithmic Functions 299279 )

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which logarithmic equation is equivalent to the exponential equation below?

4<sup>c</sup> = 64

	Choice	Feedback
*A.	$\log_4 64 = c$	
В.	$\log_4 c = 64$	
C.	$\log_{64} C = 4$	
D.	$\log_c 64 = 4$	

Global	Incorrect	Feedback
orobai	1110011001	1 OGGBGGR

The correct answer is:  $\log_4 64 = c$ .

#### Question 3a of 15 (3 Logarithmic Functions 91847)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $e^{a} = 55$ 

	Choice	Feedback
Α.	In <i>a</i> = 55	
В.	$\log_a 55 = 4$	

In	55	=	а
	00	_	u

**D.**  $\log_{55} 4 = e$ 

Global Incorrect Feedback

The correct answer is:  $\ln 55 = a$ .

#### Question 3b of 15 (3 Logarithmic Functions 299280)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $e^{a} = 60$ 

	Choice	Feedback
Α.	In <i>a</i> = 60	
*B.	In 60 = <i>a</i>	
C.	$\log_a 60 = 4$	
D.	$\log_{60} 4 = e$	

#### **Global Incorrect Feedback**

The correct answer is:  $\ln 60 = a$ .

#### Question 3c of 15 (3 Logarithmic Functions 299281)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $e^{a} = 35$ 

	Choice	Feedback
Α.	In <i>a</i> = 35	
*B.	In 35 = <i>a</i>	
C.	$\log_a 35 = 2.5$	
D.	$\log_{35} 2 = e$	

#### Global Incorrect Feedback

The correct answer is:  $\ln 35 = a$ .

#### Question 4a of 15 (3 Logarithmic Functions 91848)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $e^{a} = 38.47$ 

	Choice	Feedback
Α.	$\log_{38.47} 3.65 = e$	
В.	In <i>a</i> = 38.47	
C.	$\log_a 38.47 = 3.65$	
*D.	In 38.47 = <i>a</i>	

**Global Incorrect Feedback** The correct answer is: In 38.47 = a.

#### Question 4b of 15 (3 Logarithmic Functions 299282)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

	Choice	Feedback
Α.	$\log_{47.38} 3.65 = e$	
*B.	In 47.38 = <i>a</i>	
C.	$\log_a 47.38 = 3.65$	
D.	In <i>a</i> = 47.38	

# Global Incorrect Feedback

The correct answer is:  $\ln 47.38 = a$ .

#### Question 4c of 15 (3 Logarithmic Functions 299283)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

Which logarithmic equation is equivalent to the exponential equation below?

 $e^{a} = 28.37$ 

	Choice	Feedback
*A.	In 28.37 = <i>a</i>	
В.	In <i>a</i> = 28.37	
C.	$\log_a 28.37 = 3.65$	
D.	$\log_{28.37} 3.65 = e$	

Global Incorrect Feedback

The correct answer is:  $\ln 28.37 = a$ .

#### Question 5a of 15 (3 Logarithmic Functions 91849)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

 $c = \ln 3$ 

	Choice	Feedback	
Α.	$e^3 = c$		
*B.	$e^c = 3$		
C.	$3^c = e$		
D.	$C^3 = e$		

# Global Incorrect Feedback

The correct answer is:  $e^c = 3$ .

#### Question 5b of 15 (3 Logarithmic Functions 299284)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

 $c = \ln 2$ 

	Choice	Feedback
Α.	$e^2 = c$	

В.	$C^2 = e$	
C.	$2^c = e$	
*D.	$e^{c} = 2$	

Global Incorrect Feedback

The correct answer is:  $e^c = 2$ .

#### Question 5c of 15 ( 3 Logarithmic Functions 299286 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

 $c = \ln 4$ 

	Choice	Feedback
Α.	$e^4 = c$	
В.	$C^4 = e$	
C.	$4^c = e$	
*D.	$e^{c} = 4$	

#### Global Incorrect Feedback

The correct answer is:  $e^c = 4$ .

# Question 6a of 15 ( 3 Logarithmic Functions 91850 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

70.81 :	$= e^{a}$
---------	-----------

Choice	Feedback
$\log_a 70.81 = 4.26$	
In <i>a</i> = 70.81	
In 70.81 = <i>a</i>	
$\log_{70.81} 4.26 = e$	
	Choice $\log_a 70.81 = 4.26$ $\ln a = 70.81$ $\ln 70.81 = a$ $\log_{70.81} 4.26 = e$

Global Incorrect Feedback

#### Question 6b of 15 (3 Logarithmic Functions 299287)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $87.18 = e^{a}$ 

	Choice	Feedback
*A.	In 87.18 = <i>a</i>	
В.	In <i>a</i> = 87.18	
C.	$\log_a 87.18 = 3.45$	
D.	$\log_{87.18} 3.45 = e$	

#### **Global Incorrect Feedback** The correct answer is: $\ln 87.18 = a$ .

#### Question 6c of 15 (3 Logarithmic Functions 299288)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which logarithmic equation is equivalent to the exponential equation below?

 $67.21 = e^{a}$ 

	Choice	Feedback
Α.	$\log_a 67.21 = 2.43$	
В.	ln <i>a</i> = 67.21	
C.	$\log_{67.21} 2.43 = e$	
*D.	ln 67.21 = <i>a</i>	

#### Global Incorrect Feedback

The correct answer is:  $\ln 67.21 = a$ .

 $\label{eq:constraint} Question ~7a~of~15~(~{\tt 3 Logarithmic Functions~91851}~)$ 

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

 $\log 300 = a$ 

	Choice	Feedback
Α.	300 <sup>a</sup> = 10	
В.	$a^{10} = 300$	
*C.	$10^{a} = 300$	
D.	$300^{10} = a$	

Global Incorrect Feedback

The correct answer is:  $10^a = 300$ .

# Question 7b of 15 ( 3 Logarithmic Functions 299289 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

log 400 = *a* 

Choice	Feedback
$10^{a} = 400$	
$a^{10} = 400$	
$400^{a} = 10$	
$400^{10} = a$	
	Choice $10^a = 400$ $a^{10} = 400$ $400^a = 10$ $400^{10} = a$

#### **Global Incorrect Feedback**

The correct answer is:  $10^a = 400$ .

#### Question 7c of 15 (3 Logarithmic Functions 299290)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?
	log 200 = a

	Choice	Feedback
Α.	200 <sup>a</sup> = 10	
*B.	$10^{a} = 200$	
C.	$a^{10} = 200$	
D.	$200^{10} = a$	

Global Incorrect Feedback

The correct answer is:  $10^a = 200$ .

# Question 8a of 15 (3 Logarithmic Functions 91852)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

log 784 = *a* 

	Choice	Feedback
*A.	10 <sup>a</sup> = 784	
В.	a <sup>10</sup> = 784	
C.	784 <sup>a</sup> = 10	
D.	$784^{10} = a$	

Global Incorrect Feedback
The correct answer is: $10^a = 784$ .

# Question 8b of 15 ( 3 Logarithmic Functions 299291 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

log 478 = <i>a</i>	
$\log 170 = u$	

	Choice	Feedback
Α.	$478^{10} = a$	
В.	$a^{10} = 478$	
C.	478 <sup>a</sup> = 10	

**\*D.** 10<sup>*a*</sup> = 478

Global Incorrect Feedback

The correct answer is:  $10^a = 478$ .

#### Question 8c of 15 (3 Logarithmic Functions 299292)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which exponential equation is equivalent to the logarithmic equation below?

log 987	7 = a
---------	-------

	Choice	Feedback
Α.	a <sup>10</sup> = 987	
*B.	10 <sup>a</sup> = 987	
C.	987 <sup>a</sup> = 10	
D.	987 <sup>10</sup> = <i>a</i>	

Global Incorrect Feedback		
The correct answer is: $10^a = 987$ .		

#### Question 9a of 15 (3 Logarithmic Functions 119660)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	common
Question:	The base 10 logarithm is called the logarithm and is often written as log $x$ instead of log <sub>10</sub> $x$ .

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: common.

## Question 9b of 15 (3 Logarithmic Functions 299293)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	common
Question:	The <i>base 10</i> logarithm is called the logarithm and is often written as log $x$ instead of $\log_{10} x$ .

Attempt	Incorrect Feedback	
1st		]
C	orrect Feedback	
G	ilobal Incorrect Feedback	
Т	he correct answer is: common.	

#### Question 9c of 15 (3 Logarithmic Functions 299294)

1
Text Fill In Blank
2
false
common
The <i>base 10</i> logarithm is called the logarithm and is often written as $\log x$ instead of $\log_{10} x$ .

Attemp	ot	t Incorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
	The correct answer is: common.		

# Question 10a of 15 ( 3 Logarithmic Functions 119662 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false

Correct Answer: Question:

Convert the following logarithmic equation to the equivalent exponential equation. Use the caret (^) to enter exponents.

$$y = \ln x$$

 $e^{y}=x, e^{y}=x, e^{y}=x$ 

Attemp	pt Incorrect Feedback	
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: $e^y = x$ .	

#### Question 10b of 15 (3 Logarithmic Functions 299295)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	$e^{A}y=x$ , $e^{A}y = x$ , $e^{A}y = x$
Question:	Convert the following logarithmic equation to the equivalent exponential equation. Use the caret (^) to enter exponents.

 $y = \ln x$ 

Attemp	Incorrect Feedback	
1st		
Correct Feedback		
Global Incorrect Feedback		
	The correct answer is: $e^y = x$ .	

# Question 10c of 15 ( 3 Logarithmic Functions 299296 )

1
Text Fill In Blank
2
false
$e^{y}=x, e^{y}=x, e^{y}=x$
Convert the following logarithmic equation to the equivalent exponential equation. Use the caret (^) to enter exponents.

$y = \ln x$		
Attempt Incorrect Feedback		
1st		
Correct Feedback		
Global Incorrect Feedback		
Т	The correct answer is: $e^y = x$ .	

# Question 11a of 15 (1 Logarithmic Functions 119665)

1
True-False
2
A logarithmic function is the inverse of an exponential function.

*A. True	
B. False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 11b of 15 (1 Logarithmic Functions 299297)

Choice		Feedback	
Question:	A logarithmic	function is the same as an exp	onential function.
Maximum Sco	<b>re:</b> 2		
Question Type	e: True-False		
Maximum Atte	empts: 1		

	CIDICE	Teeuback
Α.	True	
*B.	False	

#### Global Incorrect Feedback

The correct answer is: False.

#### Question 11c of 15 (1 Logarithmic Functions 299298)

1

Maximum Attempts:

Question Type: True-False

#### Maximum Score: 2

**Question:** An exponential function is the inverse of a logarithmic function.

	Choice		Feedback	
* <b>A</b> .	True			
В.	False			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: True.	

# Question 12a of 15 (1 Logarithmic Functions 119669)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	input
Question:	A logarithmic function takes the exponential function's output and returns the exponential function's

Attempt		Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	The correct answer is: input.		

# Question 12b of 15 (1 Logarithmic Functions 299299)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	output
Question:	A logarithmic function takes the exponential function's and returns the exponential function's input.

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback

Global Incorrect Feedback
The correct answer is: output.

# Question 12c of 15 (1 Logarithmic Functions 299301)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	logarithmic, logarhythmic, logerithmic, logarithm
Question:	A function takes the exponential function's output and returns the exponential function's input.

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: logarithmic.	

# Question 13a of 15 ( 3 Logarithmic Functions 119671 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2^3=8, 8=2^3
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c$ $b^c = a$ . Use the caret (^) to enter exponents.

 $\log_2 8 = 3$ 

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	the correct answer is: $2^3 = 8$ .

# Question 13b of 15 ( 3 Logarithmic Functions 299302 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3^3=27, 27=3^3
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c$ $b^c = a$ . Use the caret (^) to enter exponents.

 $\log_3 27 = 3$ 

Attemp	Attempt Incorrect Feedback	
1st	st	
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: $3^3 = 27$ .	

# Question 13c of 15 ( 3 Logarithmic Functions 299303 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3^2=9, 9=3^2
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c$ $b^c = a$ . Use the caret (^) to enter exponents.

$\log_3 9 = 2$	
Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $3^2 = 9$ .

# Question 14a of 15 ( 3 Logarithmic Functions 119672 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	10^x=y, y=10^x
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c$ $b^c = a$ . Use the caret (^) to enter exponents.

Attempt Incorrect Feedback			
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	T٢	the correct answer is: $10^x = y$ .	

# Question 14b of 15 ( 3 Logarithmic Functions 299304 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	12^x=y, y=12^x
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c \prod b^c = a$ . Use the caret (^) to enter exponents.

$\log_{12} y = x$	
Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $12^x = y$ .

#### Question 14c of 15 ( 3 Logarithmic Functions 299305 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	11^x=y, y=11^x
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c$ $b^c = a$ . Use the caret (^) to enter exponents.

$\log_{11} y = x$	log <sub>11</sub>	<i>y</i> =	х
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Attempt Incorrect Feedback	
1st	
	Correct Feedback
Global Incorrect Feedback	
	The correct answer is: $11^x = y$ .

# Question 15a of 15 (3 Logarithmic Functions 119674)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3^n=14, 14=3^n
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c + b^c = a$ . Use the caret (^) to enter exponents.

 log<sub>3</sub> 14 = n

 Attempt
 Incorrect Feedback

 1st
 Correct Feedback

 Global Incorrect Feedback
 The correct answer is: 3<sup>n</sup> = 14.

# Question 15b of 15 ( 3 Logarithmic Functions 299306 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4^n=12, 12=4^n
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c \int b^c = a$ . Use the caret (^) to enter exponents.

 $\log_4 12 = n$ 

Attemp	t Incorrect Feedback
1st	
Correct Feedback	
	Global Incorrect Feedback
	The correct answer is: $4^n = 12$ .

# Question 15c of 15 ( 3 Logarithmic Functions 299307 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2^n=13, 13=2^n
Question:	Convert the following logarithmic equation to an exponential equation
	using the relationship $\log_b a = c + b^c = a$ . Use the caret (^) to enter exponents.

$\log_2 13 = n$		
Attempt Incorrect Feedback		
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: $2^n = 13$ .	

	PREVIEW	CLOSE	
Quiz: Graphs of Logarithmic Functions			

# Question 1a of 15 (2 Graphing Logarithmic Functions 91816)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which answer represents the domain of the logarithmic function given below?

 $F(x) = \log_8 x$ 

	Choice	Feedback
Α.		
*B.	<i>x</i> > 0	
C.	<i>x</i> < 0	
D.	all real numbers	

Global Incorrect Feedback

The correct answer is: x > 0.

# Question 1b of 15 (2 Graphing Logarithmic Functions 299347)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which answer represents the domain of the logarithmic function given below?

 $F(x) = \log_9 x$ 

	Choice	Feedback	
Α.			
В.	<i>x</i> < 0		
*C.	<i>x</i> > 0		
D.	all real numbers		

Global Incorrect Feedback

The correct answer is: x > 0.

#### Question 1c of 15 (2 Graphing Logarithmic Functions 299348)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which answer represents the domain of the logarithmic function given below?

 $F(x) = \log_7 x$ 

	Choice	Feedback
Α.		
В.	<i>x</i> < 0	
*C.	<i>x</i> > 0	
D.	all real numbers	

Global Incorrect Feedback

The correct answer is: x > 0.

Question 2a of 15 (2 Graphing Logarithmic Functions 91817)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which answer represents the domain of the logarithmic function given below?

 $F(x) = 3 + \log_{0.5} x$ 

	Choice	Feedback
Α.	x 3	
В.	<i>x</i> < 0	
*C.	<i>x</i> > 0	
D.	all real numbers	

#### Global Incorrect Feedback

The correct answer is: x > 0.

Question 2b of 15 (2 Graphing Logarithmic Functions 299349)

1

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which answer represents the domain of the logarithmic function given below?

$$F(x) = 2 + \log_{0.6} x$$

	Choice	Feedback	
*A.	<i>x</i> > 0		
В.	<i>x</i> < 0		
C.	x2		
D.	all real numbers		
Global Incorrect Feedback			

The correct answer is: x > 0.

#### Question 2c of 15 (2 Graphing Logarithmic Functions 299350)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which answer represents the domain of the logarithmic function given below?

 $F(x) = 5 + \log_{0.3} x$ 

	Choice	Feedback
Α.	x 5	
В.	<i>x</i> < 0	
*C.	<i>x</i> > 0	
D.	all real numbers	

Global Incorrect Feedback		
The correct answer is: $x > 0$ .		

# Question 3a of 15 (2 Graphing Logarithmic Functions 91818)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

$$F(x) = \log_7 x$$

**Correct Answers:** 

	Cho	ice		
*A.	The	x-intercept is (1, 0).		
В.	The	range is $y > 0$ .		
C.	It is	decreasing.		
*D.	It is	increasing.		
Ε.	The	y-intercept is (0, 7).		
F.	The	domain is $x > 7$ .		
Attempt Incorrect Feedback				
1st	1st			
	Correct Feedback			
	Global Incorrect Feedback			
	T	ne correct answers are:		
		<ul><li>The <i>x</i>-intercept is (1, 0).</li><li>It is increasing.</li></ul>		

# Question 3b of 15 ( 2 Graphing Logarithmic Functions 299351 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $F(x) = \log_6 x$ 

Correct Answers:

	Choice
Α.	It is decreasing.
В.	The range is $y > 0$ .
*C.	The x-intercept is (1, 0).
D.	The y-intercept is (0, 6).
*E.	It is increasing.

F.	The domain is $x > 6$ .			
Attempt		Incorrect Feedback		
1st				
	С	orrect Feedback		
	Global Incorrect Feedback			
	Т	The correct answers are:		
		<ul><li>The <i>x</i>-intercept is (1, 0).</li><li>It is increasing.</li></ul>		

# Question 3c of 15 ( 2 Graphing Logarithmic Functions 299352 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $F(x) = \log_8 x$ 

#### **Correct Answers:**

	Choice
*A.	The x-intercept is (1, 0).
В.	The range is $y > 0$ .
C.	It is decreasing.
*D.	It is increasing.
Ε.	The y-intercept is (0, 8).
F.	The domain is $x > 8$ .

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answers are:	

• The *x*-intercept is (1, 0).

• It is increasing.

#### Question 4a of 15 (3 Graphing Logarithmic Functions 91819)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_7(x - 2)$ 

	Choice	Feedback
Α.	(1, 0)	
В.	(7, 0)	
*C.	(3, 0)	
D.	(-1, 0)	

Global Incorrect Feedback

The correct answer is: (3, 0).

# Question 4b of 15 (3 Graphing Logarithmic Functions 299353)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_7(x - 3)$ 

	Choice	Feedback
Α.	(1, 0)	
*В.	(4, 0)	
C.	(7, 0)	
D.	(-2, 0)	

**Global Incorrect Feedback** 

The correct answer is: (4, 0).

Question 4c of 15 (3 Graphing Logarithmic Functions 299354)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_7(x - 1)$ 

	Choice	Feedback
*A.	(2, 0)	
В.	(7, 0)	
C.	(1, 0)	
D.	(0, 0)	

Global Incorrect Feedback

The correct answer is: (2, 0).

# Question 5a of 15 ( 2 Graphing Logarithmic Functions 91820 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $F(x) = \log_{0.125} x$ 

#### **Correct Answers:**

	Choice
Α.	It is increasing.
*B.	The range is all real numbers.
*C.	The domain is $x > 0$ .
D.	The y-intercept is (0, 4).
*E.	The x-intercept is (1, 0).
*F.	It is decreasing.

Attemp	t Incorrect Feedback	
1st	1st	
	Correct Feedback	
	Global Incorrect Feedback	

The correct answers are:

- The range is all real numbers.
- The domain is x > 0.
- The *x*-intercept is (1, 0).
- It is decreasing.

#### Question 5b of 15 (2 Graphing Logarithmic Functions 299355)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $F(x) = \log_{0.521} x$ 

**Correct Answers:** 

	Choice
*A.	It is decreasing.
*B.	The range is all real numbers.
*C.	The domain is $x > 0$ .
*D.	The x-intercept is (1, 0).
E.	The y-intercept is (0, 4).
F.	It is increasing.

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	Global Incorrect Feedback	
	Tł	ne correct answers are:
		<ul> <li>The range is all real numbers.</li> <li>The domain is x &gt; 0.</li> <li>The x-intercept is (1, 0).</li> <li>It is decreasing.</li> </ul>

Question 5c of 15 ( 2 Graphing Logarithmic Functions 299356 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which facts are true for the graph of the function below? Check all that apply.

 $F(x) = \log_{0.725} x$ 

#### Correct Answers:

I

	Choice
*A.	The range is all real numbers.
В.	The y-intercept is (0, 4).
*C.	The domain is $x > 0$ .
*D.	The x-intercept is (1, 0).
Ε.	It is increasing.
*F.	It is decreasing.
	ll .

Attempt	Incorrect Feedback	
1st		
(	Correct Feedback	

Global Incorrect Feedback
<ul> <li>The correct answers are:</li> <li>The range is all real numbers.</li> <li>The domain is x &gt; 0.</li> <li>The x-intercept is (1, 0).</li> <li>It is decreasing.</li> </ul>

# Question 6a of 15 ( 2 Graphing Logarithmic Functions 91821 )

1
Multiple Choice
2
What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_{0.125} (x - 2)$ 

	Choice	Feedback
* <b>A</b> .	(3, 0)	
В.	(1, 0)	

C.	(-1, 0)	
D.	(0.125, 0)	

Global Incorrect Feedback

The correct answer is: (3, 0).

## Question 6b of 15 (2 Graphing Logarithmic Functions 299357)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_{0.25} (x - 3)$ 

	Choice	Feedback
Α.	(-2, 0)	
В.	(1, 0)	
*C.	(4, 0)	
D.	(0.25, 0)	

**Global Incorrect Feedback** 

The correct answer is: (4, 0).

#### Question 6c of 15 (2 Graphing Logarithmic Functions 299358)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the <i>x</i> -intercept of the function below?

 $F(x) = \log_{0.525} (x - 1)$ 

	Choice	Feedback
Α.	(0, 0)	
*B.	(2, 0)	
C.	(1, 0)	
D.	(0.525, 0)	

Global Incorrect Feedback
The correct answer is: (2, 0).
## Question 7a of 15 (2 Graphing Logarithmic Functions 119679)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(1,0), 1,0
Question:	The graph of a logarithmic function in the form of $F(x) = \log_b x$ will always have a vertical asymptote at the <i>y</i> -axis, and an <i>x</i> -intercept at the point

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: (1, 0).

## Question 7b of 15 (2 Graphing Logarithmic Functions 299359)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(1,0), 1,0
Question:	The graph of a logarithmic function in the form of $F(x) = \log_b x$ will always have a vertical asymptote at the <i>y</i> -axis, and an <i>x</i> -intercept at the point

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	The correct answer is: (1, 0).	

Question 7c of 15 ( 2 Graphing Logarithmic Functions 299360 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2

Is Case Sensitive:	false
Correct Answer:	(1,0), 1,0
Question:	The graph of a logarithmic function in the form of $F(x) = \log_b x$ will always have a vertical asymptote at the <i>y</i> -axis, and an <i>x</i> -intercept at the point

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	G	lobal Incorrect Feedback	
The correct answer is: (		ne correct answer is: (1, 0).	

#### Question 8a of 15 (2 Graphing Logarithmic Functions 119684)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The domain of $F(x) = \log_b x$ is the set of all positive real numbers.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback
The correct answer is: True.

#### Question 8b of 15 (2 Graphing Logarithmic Functions 299361)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2

Question:

The domain of  $F(x) = \log_b x$  is the set of all real numbers.

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback

The correct answer is: False.

#### Question 8c of 15 (2 Graphing Logarithmic Functions 299362)

Maximum Attempts:

Question Type: True-False

1

2

Maximum Score:

Question:

The domain of  $F(x) = \log_b x$  is the set of all negative real numbers.

	Choice	Feedback	
Α.	True		
*B.	False		

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 9a of 15 (1 Graphing Logarithmic Functions 119685)

Maxi	mum Attempts:	1	
Ques	tion Type:	True-False	
Maxi	mum Score:	2	
Ques	tion:	The range of $F(x) = \log_b x$ is	the set of all positive real numbers.
	Choice		Feedback
Α.	True		
*B	Falso		

Global Incorrect Feedback

The correct answer is: False.

#### Question 9b of 15 (1 Graphing Logarithmic Functions 299363)

mum Attempts:	1	
tion Type:	True-False	
mum Score:	2	
tion:	The range of $F(x) = \log_b x$ is	the set of all real numbers.
Choice		Feedback
True		
False		
	mum Attempts: ition Type: mum Score: ition: Choice True False	mum Attempts:1tion Type:True-Falsemum Score:2tion:The range of $F(x) = \log_b x$ isChoiceTrueTrueFalse

Global Incorrect Feedback
The correct answer is: True.

Question 9c of 15 (1 Graphing Logarithmic Functions 299364)

Ohaina	
Question:	The range of $F(x) = \log_b x$ is the set of all negative real numbers.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice	Feedback
Α.	True	
*B.	False	

## **Global Incorrect Feedback**

The correct answer is: False.

#### Question 10a of 15 (1 Graphing Logarithmic Functions 119691)

Choice	Feedback
Question:	The function $F(x) = \log_2 x$ is decreasing.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice	Feedback
Α.	True	
*B.	False	

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 10b of 15 (1 Graphing Logarithmic Functions 299365)

Maxi	mum Attempts:	1	
Ques	stion Type:	True-False	
Maxi	mum Score:	2	
Ques	stion:	The function $F(x) = \log x$	$_{3}$ x is decreasing.
	Choice		Feedback
<b>A</b> .	<b>Choice</b> True		Feedback
A. *B.	<b>Choice</b> True False		Feedback

#### **Global Incorrect Feedback**

The correct answer is: False.

Question 10c of 15 (1 Graphing Logarithmic Functions 299366)

1

Maximum Attempts:

Ques	tion Type:	True-False	
Maxi	mum Score:	2	
Ques	tion:	The function $F(x) = \log_5 x$ is decrea	sing.
	Choice	Feedback	
Α.	True		
*B.	False		
		Global Incorrect Feedbac	k
		The correct answer is: False	

# Question 11a of 15 (1 Graphing Logarithmic Functions 119692)

Maximum	Attempts:	1
Question 1	Гуре:	Text Fill In Blank
Maximum	Score:	2
Is Case Se	ensitive:	false
Correct An	nswer:	(1,0), 1,0
Question:		The <i>x</i> -intercept of $F(x) = \log_2 x$ is
Attempt	Incorrect Feedb	ack
1st		
Co	orrect Feedback	
GI	obal Incorrect F	eedback
Th	ne correct answer i	is: (1, 0).

# Question 11b of 15 (1 Graphing Logarithmic Functions 299367)

Maximum	Attempts:	1	
Question	Туре:	Text Fill In Blank	
Maximum	Score:	2	
Is Case Se	ensitive:	false	
Correct A	nswer:	(1,0), 1,0	
Question:		The x-intercept of $F(x) = \log_4 x$	( is
Attempt	Incorrect Feedb	ack	
1st			

H.
Correct Feedback

Global Incorrect Feedback
The correct answer is: (1, 0).

#### Question 11c of 15 (1 Graphing Logarithmic Functions 299368)

Maximum Attempts:		1	
Question Type:		Text Fill In Blank	
Maximum Score:		2	
Is Case Sensitive:		false	
Correct Answer:		(1,0), 1,0	
Question:		The x-intercept of $F(x) = \log_6 x$ is	
Attempt	Incorrect Feedback		
1st			

Correct Feedback
Global Incorrect Feedback
The correct answer is: (1, 0).

#### Question 12a of 15 (2 Graphing Logarithmic Functions 119693)

1
True-False
2
The function $F(x) = \log_{0.5} x$ is decreasing.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 12b of 15 (2 Graphing Logarithmic Functions 299369)

	Choice	Feedback		
(	Question:	The function $F(x) = \log_{0.75} x$ is decreasing.		
l	Maximum Sco	e: 2		
Question Type:		True-False	True-False	
l	Maximum Atte	npts: 1		

*A.	True		
В.	False		

Global Incorrect Feedback

The correct answer is: True.

## Question 12c of 15 ( 2 Graphing Logarithmic Functions 299370 )

Question:	The function $F(x) = \log_{0.5} x$ is increasing.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback	
The correct answer is. False	

The correct answer is: False.

#### Question 13a of 15 (2 Graphing Logarithmic Functions 119698)

Attempt Incorrect Foodback	
Question:	The x-intercept of $F(x) = \log_{0.5} x$ is
Correct Answer:	(1,0), 1,0
Is Case Sensitive:	false
Maximum Score:	2
Question Type:	Text Fill In Blank
Maximum Attempts:	1

Апеттр	pt meen eeuback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: (1, 0).	

#### Question 13b of 15 (2 Graphing Logarithmic Functions 299371)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2

Is Case Sensitive:		ensitive:	false	
Correct Answer:		nswer:	(1,0), 1,0	
Question:			The <i>x</i> -intercept of $F(x) = \log_{0.2}$	<sub>5</sub> x is
Attempt Incorrect Feed			back	
1st	1st			
Correct Feedb		orrect Feedback		
Global Incorrect		lobal Incorrect I	Feedback	
The correct answer		ne correct answer	is: (1, 0).	

## Question 13c of 15 (2 Graphing Logarithmic Functions 299372)

		<b>.</b>					
Maximum Attempts:		Attempts:	1				
Question Type:		Гуре:	Text Fill In Blank				
Maximum Score:		Score:	2				
Is Case	Se	ensitive:	false				
Correct Answer:		nswer:	(1,0), 1,0				
Question:			The x-intercept of $F(x) = \log_{0.15} x$ is				
Attemp	ot	Incorrect Feed	lback				
1st							
Correct Feedback							
	Global Incorrect Feedback						

# Question 14a of 15 (2 Graphing Logarithmic Functions 119701)

			_	`		3	5	
Maximum Attemp	ots:	1						

Question Type:	Multiple Choice
Maximum Score:	2

The correct answer is: (1, 0).

Maximum Score:

Question:

For what values of *b* will  $F(x) = \log_b x$  be an increasing function?

	Choice	Feedback
Α.	<i>b</i> < 0	
В.	<i>b</i> > 0	
*C.	<i>b</i> > 1	
D.	<i>b</i> < 1	

**Global Incorrect Feedback** 

The correct answer is: b > 1.

#### Question 14b of 15 (2 Graphing Logarithmic Functions 299373)

Maximum Attempts:1Question Type:Multiple Choice

2

Maximum Score:

Question:

For what values of *b* will  $F(x) = \log_b x$  be an increasing function?

	Choice	Feedback
Α.	<i>b</i> < 0	
В.	<i>b</i> > 0	
C.	<i>b</i> < 1	
*D.	<i>b</i> > 1	

Global Incorrect Feedback

The correct answer is: b > 1.

#### Question 14c of 15 (2 Graphing Logarithmic Functions 299374)

Maximum Attempts:

Multiple Choice

1

2

Maximum Score:

Question:

**Question Type:** 

For what values of *b* will  $F(x) = \log_b x$  be an increasing function?

	Choice	Feedback
Α.	<i>b</i> < 1	
*B.	<i>b</i> > 1	
C.	<i>b</i> > 0	
D.	<i>b</i> < 0	

Global Incorrect FeedbackThe correct answer is: b > 1.

#### Question 15a of 15 (2 Graphing Logarithmic Functions 119704)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of <i>b</i> will $F(x) = \log_b x$ be a decreasing function?

	Choice	Feedback
*A.	0 < <i>b</i> < 1	
В.	<i>b</i> > 0	
C.	<i>b</i> < 0	
D.	0 > <i>b</i> > -1	

Global Incorrect Feedback

#### The correct answer is: 0 < b < 1.

#### Question 15b of 15 (2 Graphing Logarithmic Functions 299375)

Maximum Attempts: 1

Question Type:	Multiple Choice
Question Type:	Multiple Choice

2

Maximum Score:

Question:

For what values of b will  $F(x) = \log_b x$  be a decreasing function?

	Choice	Feedback
Α.	<i>b</i> < 0	
В.	<i>b</i> > 0	
*C.	0 < <i>b</i> < 1	
D.	0 > <i>b</i> > -1	

Global Incorrect Feedback

The correct answer is: 0 < b < 1.

Question 15c of 15 ( 2 Graphing Logarithmic Functions 299376 )

Maximum Attempts:

Question:

 Question Type:
 Multiple Choice

1

Maximum Score: 2

For what values of *b* will  $F(x) = \log_b x$  be a decreasing function?

	Choice		Feedback
Α.	0 > <i>b</i> > -1		
*B.	0 < <i>b</i> < 1		
C.	<i>b</i> < 0		
D.	<i>b</i> > 0		
		Global Incorre	ct Feedback

The correct answer is: 0 < b < 1.

	PREVIEW	CLOSE	
Quiz: Equivalent Logarithmic Expressions			

## Question 1a of 15 (3 Equivalent Logarithmic Expressions 91899)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log 2 - log 6

Correct Answers:

	Cho	bice	
*A.	log(	(2) + log( = )	
В.	log 2	2	
*C.	log (	( <sup>1</sup> / <sub>3</sub> )	
D.	log 3	3	
Atte	mpt	Incorrect Feedback	
1st			
	С	Correct Feedback	
	G	Global Incorrect Feedback	
	TI	The correct answers are: $\log(2) + \log\left(\frac{1}{6}\right)$ and $\log\left(\frac{1}{3}\right)$ .	

Question 1b of 15 ( 3 Equivalent Logarithmic Expressions 299707 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	log 2 - log 4

**Correct Answers:** 



## Question 1c of 15 (3 Equivalent Logarithmic Expressions 299708)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log 2 - log 8



Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	he correct answers are: $\log(2) + \log(\frac{1}{P})$ hd $\log(\frac{1}{4})$ .

## Question 2a of 15 (3 Equivalent Logarithmic Expressions 91900)

Maximum Attempts:1Question Type:Multiple ResponseMaximum Score:2Question:Which expressions are equivalent to the one below? Check all that apply.

log 5 - log 20

**Correct Answers:** 

			7	
	Cho	Choice		
Α.	log 4	4		
В.	log !	ō		
*C.				
*D.	$\log(5) + \log(\frac{1}{20})$			
Atte	Attempt Incorrect Feedback			
1st				
	С	orrect Feedback		

Global Incorrect Feedback

The correct answers are: 
$$\log\left(\frac{1}{4}\right)$$
 and  $\log(5)$   
+  $\log\left(\frac{1}{20}\right)$ .

# Question 2b of 15 ( 3 Equivalent Logarithmic Expressions 299709 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log 5 - log 25

#### **Correct Answers:**

	Cho	ice	
* <b>A</b> .	log (	( <sup>1</sup> 5)	
В.	log 5	5	
C.	log <sup>2</sup>	10	
*D.	log(!	5) + log ( <del>1</del> 25	
Atte	mpt	Incorrect Feedback	
1st			
	C	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł +	ne correct answers are: log( log(25).	$\left( \frac{1}{5} \right)$ and log(5)

# Question 2c of 15 (3 Equivalent Logarithmic Expressions 299710)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that

apply.

log 4 - log 20

**Correct Answers:** 

	Cho	ice
*A.	log (	( <sup>1</sup> 5)
В.	log !	5
C.	log 4	4
*D.	log(	4) + $\log(\frac{1}{20})$
Atte	mpt	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł +	he correct answers are: $\log\left(\frac{1}{5}\right)$ and $\log(4)$ $\log\left(\frac{1}{20}\right)$ .

# Question 3a of 15 (3 Equivalent Logarithmic Expressions 91901)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $\log_2 2 + \log_2 8$ 

	Choice
Α.	log 10
*B.	$\log_2(2^4)$
*C.	4
*D.	log <sub>2</sub> 16

Attempt		Incorrect Feedback
1st		
C		orrect Feedback
	G	lobal Incorrect Feedback
	Tł 16	the correct answers are: $log_2(2^4)$ , 4, and $log_2$ 6.

# Question 3b of 15 (3 Equivalent Logarithmic Expressions 299711)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>3</sub> 3 + log<sub>3</sub> 27

#### **Correct Answers:**

	Choice
*A.	log <sub>3</sub> 81
*B.	log <sub>3</sub> (3 <sup>4</sup> )
*C.	4
D.	log 10

Attempt		Incorrect Feedback
1st		
C		orrect Feedback
	G	lobal Incorrect Feedback
	Th 4.	ne correct answers are: $\log_3 81$ , $\log_2(3^4)$ , and

# Question 3c of 15 ( 3 Equivalent Logarithmic Expressions 299712 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that

apply.

 $\log_5 5 + \log_5 125$ 

**Correct Answers:** 

	1			
	Choice			
*A.	4	4		
*B.	log	log <sub>5</sub> (5 <sup>4</sup> )		
C.	log	log 10		
*D.	log	log₅625		
Attempt Incorrect Feedback				
1st				
	C	orrect Feedback		

Correct Feedback
Global Incorrect Feedback
The correct answers are: 4, $\log_5(5^4)$ , and $\log_5625$ .

# Question 4a of 15 (3 Equivalent Logarithmic Expressions 91902)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $\log_3 81 + \log_3 81$ 

	Cho	ice		
* <b>A</b> .	8			
В.	log	log 6561		
*C.	log₃	log <sub>3</sub> (3 <sup>8</sup> )		
*D.	log₃ 6561			
Atte	Attempt Incorrect Feedback			
1st				
	С	orrect Feedback		

Global Incorrect Feedback
The correct answers are: 8, $\log_3(3^8)$ , and $\log_3 6561$ .

# Question 4b of 15 (3 Equivalent Logarithmic Expressions 299714)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>5</sub> 125 + log<sub>5</sub> 125

#### **Correct Answers:**

	Cho	ice		
*A.	6			
*B.	log <sub>5</sub>	log <sub>5</sub> (5 <sup>6</sup> )		
C.	log 15625			
*D.	log₅ 15625			
Atte	Attempt Incorrect Feedback			
1st	1st			
	Correct Feedback			
	Global Incorrect Feedback			
	The correct answers are: 6, $\log_5(5^6)$ , and $\log_5 15625$ .			

# Question 4c of 15 ( 3 Equivalent Logarithmic Expressions 299713 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	$\log_2 16 + \log_2 16$

	Cho	pice		
Α.	log 256			
*B.	8	8		
*C.	log <sub>2</sub>	(2 <sup>8</sup> )		
*D.	log <sub>2</sub> 256			
Attempt Incorrect Feedback				
1st				
	Correct Feedback			
	Global Incorrect Feedback			
	T 2	he correct answers are: 8, $\log_2(2^8)$ , and $\log_2$ 56.		

# Question 5a of 15 ( 3 Equivalent Logarithmic Expressions 91903 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $ln(e^2)$ 

	Choice
Α.	2 <i>e</i>
*B.	2 ● In <i>e</i>
C.	1
*D.	2

Attempt		Incorrect Feedback
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
The correct answers are: $2 \bullet \ln e$ and $2$ .		

## Question 5b of 15 (3 Equivalent Logarithmic Expressions 299715)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $ln(e^3)$ 

#### **Correct Answers:**

	Cł	าด	ice	
*A.	3 ●In <i>e</i>			
*B.	3	3		
C.	1	1		
D.	3 <i>e</i>			
Atte	mp	ot	Incorrect Feedback	
1st				
		С	orrect Feedback	
	Global Incorrect Feedback			

The correct answers are:  $3 \bullet \ln e$  and 3.

#### Question 5c of 15 (3 Equivalent Logarithmic Expressions 299716)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

In(*e*<sup>5</sup>)

	Choice
Α.	5 <i>e</i>
*B.	5
C.	1
*D.	5 ● In <i>e</i>

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
The correct answers are: 5 and 5 • In <i>e</i> .		

# Question 6a of 15 ( 3 Equivalent Logarithmic Expressions 91904 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log(10<sup>5</sup>)

**Correct Answers:** 

	Choice	
Α.	5 • 10	
*B.	5	
C.	1	
*D.	5 • log 10	

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: 5 and 5 •log 10.

# Question 6b of 15 ( 3 Equivalent Logarithmic Expressions 299717 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log(10<sup>7</sup>)

**Correct Answers:** 

	Choice
Α.	7 •10
*B.	7
*C.	7 ●log 10
D.	1
_	

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answers are: 7 and 7 log 10.	

# Question 6c of 15 (3 Equivalent Logarithmic Expressions 299718)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log(10<sup>3</sup>)

	Choice
*A.	3 •log 10
В.	1
*C.	3
D.	3 • 10

Attempt		Incorrect Feedback
1st		
Correct Feedback		orrect Feedback
	G	lobal Incorrect Feedback

# Question 7a of 15 (3 Equivalent Logarithmic Expressions 91905)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>7</sub> 7 • log<sub>3</sub> 9

**Correct Answers:** 

	Choice
Α.	2 • 7
В.	2 • 10
*C.	2
*D.	2 ● log <sub>7</sub> 7

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answers are: 2 and 2 $\bullet \log_7 7$ .		

# Question 7b of 15 (3 Equivalent Logarithmic Expressions 299719)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>9</sub> 9 • log<sub>2</sub> 8

	Choice
*A.	3
В.	2 • 11

C.	2 •	2•9	
*D.	3∎	}● log <sub>9</sub> 9	
Atte	mpt	pt Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	Т	he correct answers are: 3 and 3• log <sub>9</sub> 9.	

## Question 7c of 15 ( 3 Equivalent Logarithmic Expressions 299720 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>5</sub> 5 • log<sub>2</sub> 4

**Correct Answers:** 

	Cho	pice	
*A.	2		
В.	2 🛛	7	
C.	3 •	5	
*D.	2 ● log <sub>5</sub> 5		
Atte	mpt	Incorrect Feedback	
1st	st		
	С	Correct Feedback	
	G	Global Incorrect Feedback	
	Т	he correct answers are: 2 and	d 2 ●log <sub>5</sub> 5.

#### Question 8a of 15 ( 3 Equivalent Logarithmic Expressions 91906 )

Maximum Attempts:

Question Type: Multiple Response

1

Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>8</sub> 1 ■log<sub>3</sub> 27

**Correct Answers:** 

	Choice			
Α.	3	• 8	3	
В.	3	lo	0g <sub>8</sub> 8	
*C.	0			
D.	1			
Attempt Incorrect Feedback				
1st				
		С	orrect Feedback	
		G	lobal Incorrect Feedback	
	The correct answer is: 0.			

# Question 8b of 15 (3 Equivalent Logarithmic Expressions 299721)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>7</sub> 1 ●log<sub>5</sub> 25

	Cho	bice	
*A.	0		
В.	2 🖷	log <sub>7</sub> 7	
C.	5 •	7	
D.	1		
Atte	mpt	Incorrect Feedback	
1st			
	C	Correct Feedback	

Global Incorrect Feedback
The correct answer is: 0.

# Question 8c of 15 ( 3 Equivalent Logarithmic Expressions 299722 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

log<sub>9</sub> 1 ■log<sub>9</sub> 81

Correct Answers:

	Cho	ice	
Α.	9 • 9	9	
В.	9 • I	og₀ 9	
C.	1		
*D.	0		
Atte	mpt	Incorrect Feedback	
1st			
		orrect Feedback	

Correct Feedback
Global Incorrect Feedback
The correct answer is: 0.

# Question 9a of 15 (2 Equivalent Logarithmic Expressions 119823)

Attempt Incorrect Fe	eedback
Question:	For any positive number <i>b</i> not equal to 1, $\log_b 1 = $
Correct Answer:	0
Maximum Score:	2
Question Type:	Numeric Fill In Blank
Maximum Attempts:	1

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback

Global Incorrect Feedback
The correct answer is: 0.

## Question 9b of 15 (2 Equivalent Logarithmic Expressions 299723)

Maximum Attempts: 1		1	
Question Type:		Numeric Fill In Blank	
Maximu	m Score:	2	
Correct Answer:		0	
Questio	Stion: For any positive number b not equal to 1, $\log_b 1 = $		
Attemp	ot Incorrect Fe	eedback	
1st			
	Correct Feedb	ack	
	Global Incorre	ect Feedback	
	The correct ans	wer is: 0.	
	Global Incorre	wer is: 0.	

## Question 9c of 15 ( 2 Equivalent Logarithmic Expressions 299724 )

Maximu	m	Attempts:	1
Questio	n 1	Гуре:	Numeric Fill In Blank
Maximu	m	Score:	2
Correct	Ar	nswer:	0
Questio	n:		For any positive number <i>b</i> not equal to 1, $\log_b 1 = $
Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedba	ick
	G	lobal Incorrec	ct Feedback
	T٢	ne correct answ	ver is: 0.

## Question 10a of 15 (2 Equivalent Logarithmic Expressions 119824)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximu	m Score:	2	
Correct	Answer:	1	
Questio	Stion: For any positive number $b$ not equal to 1, $\log_b b = $		
Attemp	ot Incorrect F	eedback	
1st			
	Correct Feed	back	
	Global Incorr	ect Feedback	
	The correct and	swer is: 1.	

#### Question 10b of 15 (2 Equivalent Logarithmic Expressions 299725)

Maximum Attempts:	Attempts: 1		
Question Type:	Numeric Fill In Blank		
Maximum Score:	2		
Correct Answer:	Answer: 1		
Question:	For any positive number <i>b</i> not equal to 1, $\log_b b = $		
Attempt Incorrect	Incorrect Feedback		
1st			
Correct Feed	Iback		
Global Incor	rect Feedback		
The correct a	nswer is: 1.		

## Question 10c of 15 (2 Equivalent Logarithmic Expressions 299726)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2Correct Answer:1Question:For any positive number b not equal to 1,  $\log_b b =$ \_\_\_\_\_.Attempt Incorrect Feedback1st

Correct Feedback

Global Incorrect Feedback	
The correct answer is: 1.	

#### Question 11a of 15 (2 Equivalent Logarithmic Expressions 120048)

Maximum Attempts:

Question Type: Multiple Choice

1

Maximum Score: 2

Question:

For any positive numbers a, b, and d, with  $b \neq 1$ ,  $\log_b(a \bullet d) =$ \_\_\_\_\_.

	Choice	Feedback
Α.	$d \bullet \log_b a$	
*B.	$\log_b a + \log_b d$	
C.	$\log_b a = \log_b d$	
D.	$\log_b a - \log_b d$	

Global Incorrect Feedback

The correct answer is:  $\log_b a + \log_b d$ .

Question 11b of 15 (2 Equivalent Logarithmic Expressions 299728)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For any positive numbers $a$ , $b$ , and $d$ , with $b \neq 1$ , $\log_b a + \log_b d =$

	Choice	Feedback
Α.	$d \bullet \log_b a$	
В.	$\log_b a - \log_b d$	
C.	$\log_b a \bullet \log_b d$	
*D.	log <sub>b</sub> (a ■ d)	

Global Incorrect Feedback

The correct answer is:  $\log_b(a \bullet d)$ .

Question 11c of 15 (2 Equivalent Logarithmic Expressions 299729)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question:

For any positive numbers a, b, and d, with  $b \neq 1$ ,

 $\log_{b}\left(\frac{a}{d}\right) =$ \_\_\_\_\_

	Choice	Feedback
Α.	d ■log <sub>b</sub> a	
В.	$\log_b a + \log_b d$	
C.	$\log_b a \bullet \log_b d$	
*D.	$\log_b a - \log_b d$	

**Global Incorrect Feedback** 

The correct answer is:  $\log_b a - \log_b d$ .

#### Question 12a of 15 (2 Equivalent Logarithmic Expressions 120049)

Maximum Attempts:

Multiple Choice

1

2

Question Type: Maximum Score:

Question:

For any positive numbers a, b, and d, with  $b \neq 1$ ,  $\log_b(a^d) =$ \_\_\_\_\_.

	Choice	Feedback
Α.	$d + \log_b a$	
В.	$a^d \bullet \log_b a^d$	
*C.	$d \bullet \log_b a$	
D.	$\log_b a + \log_b d$	

**Global Incorrect Feedback** 

The correct answer is:  $d \cdot \log_b a$ .

## Question 12b of 15 (2 Equivalent Logarithmic Expressions 299730)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:For any positive numbers  $a, b, and d, with b \neq 1, \log_b \_ = d \bullet \log_b$ ChoiceFeedback

	Choice	Feedback
* <b>A</b> .	a <sup>d</sup>	
В.	$a^d \bullet \log_b a^d$	
C.	$d^{a}$	

$\log_b a + \log_b a$	ьd
-----------------------	----

D.

**Global Incorrect Feedback** 

The correct answer is:  $a^d$ .

#### Question 12c of 15 (2 Equivalent Logarithmic Expressions 299731)

Question:	For any positive numbers $a$ , $b$ , and $d$ , with $b \neq 1$ , $\log_b(a^d) = $
Maximum Score:	2
Question Type:	Multiple Choice
Maximum Attempts:	1

	Choice	Feedback
Α.	$d + \log_b a$	
В.	$a^d \bullet \log_b a^d$	
*C.	d ■log <sub>b</sub> a	
D.	$\log_b a + \log_b d$	

**Global Incorrect Feedback** The correct answer is:  $d \cdot \log_b a$ .

#### Question 13a of 15 (2 Equivalent Logarithmic Expressions 120050)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The log of a quotient is the log of the numerator minus the log of the denominator.

	Choice		Feedback	
* <b>A</b> .	True			
В.	False			
		Global Incorrec	ct Feedback	

The correct answer is: True.

#### Question 13b of 15 (2 Equivalent Logarithmic Expressions 299732)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The log of a quotient is the log of the numerator divided by the log of

#### the denominator.

	Choice		Feedback	
Α.	True			
*B.	False			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: False.	

## Question 13c of 15 (2 Equivalent Logarithmic Expressions 299733)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The log of a quotient is the log of the numerator plus the log of the denominator.

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback

The correct answer is: False.

## Question 14a of 15 ( 3 Equivalent Logarithmic Expressions 119830 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	log(x), log (x), logx, log x
Question:	Simplify the following expression.

 $\log(x^2) - \log(x).$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
The correct answer is: $log(x)$ .		ne correct answer is: log(x).

#### Question 14b of 15 (3 Equivalent Logarithmic Expressions 299734)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	log(x), log (x), logx, log x
Question:	Simplify the following expression.

 $\log(x^3) - \log(x^2).$ 

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
The correct answer is: log(x).		ne correct answer is: log(x).	

#### Question 14c of 15 (3 Equivalent Logarithmic Expressions 299735)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	log(x), log (x), logx, log x
Question:	Simplify the following expression.

 $\log(x^4) - \log(x^3).$ 

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
The correct answer is: $log(x)$ .		he correct answer is: $log(x)$ .	

#### Question 15a of 15 (3 Equivalent Logarithmic Expressions 119833)

Maximum Attempts:1Question Type:Text Fill In BlankMaximum Score:2

Is Case Sensitive:	false
Correct Answer:	log16, 2log4, 4log2, log 16, log(16), 2log(4), 4log(2), log (16)
Question:	Simplify the following expression.

$$\log(16x^2) + 2\log\left(\frac{1}{x}\right).$$

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	G	lobal Incorrect Feedback	
The correct answer is: log 16.			

# $\label{eq:constraint} Ouestion ~15b ~of ~15 ~(~ {\tt 3 Equivalent Logarithmic Expressions ~299736}~)$

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	log25, 2log5, log 25, log(25), 2log(5), log (25)
Question:	Simplify the following expression.

$$\log(25x^3) + 3\log\left(\frac{1}{x}\right).$$

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: log 25.		

Question 15c of 15 ( 3 Equivalent Logarithmic Expressions 299737 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	log9, 2log3, log 9, log(9), 2log(3), log (9)

Question:

Simplify the following expression.

$$\log(9x^5) + 5 \log\left(\frac{1}{x}\right).$$

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: log 9.

	PREVIEW	CLOSE
Quiz: Evaluating Logarithms		

## Question 1a of 15 (3 Evaluating Logarithms 91853)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.13
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>7</sub> 9

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: 1.13.	

# Question 1b of 15 (3 Evaluating Logarithms 300097)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.89
Question:	Evaluate the following expression. Round your answer to two decimal places.

loa。	7
1099	

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 0.89.

Question 1c of 15 ( 3 Evaluating Logarithms 300098 )
Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.16
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>6</sub> 8

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 1.16.

# Question 2a of 15 (3 Evaluating Logarithms 91854)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3.17
Question:	Evaluate the following expression. Round your answer to two decimal places.

 $\log_2 9$ 

Attemp	ot	Incorrect Feedback
1st	st	
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 3.17.	

# Question 2b of 15 (3 Evaluating Logarithms 300099)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.1
Question:	Evaluate the following expression. Round your answer to two decimal

places.

log₃ 10

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.10.

#### Question 2c of 15 ( 3 Evaluating Logarithms 300100 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.18
Question:	Evaluate the following expression. Round your answer to two decimal places.

 $\log_3 11$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.18.

# Question 3a of 15 ( 3 Evaluating Logarithms 91855 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.51
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>7</sub> e

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: 0.51.

# Question 3b of 15 (3 Evaluating Logarithms 300101)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.48
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>8</sub> e

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Τŀ	ne correct answer is: 0.48.

# Question 3c of 15 ( 3 Evaluating Logarithms 300102 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.56
Question:	Evaluate the following expression. Round your answer to two decimal places.

 $\log_6 e$ 

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback

# Question 4a of 15 (3 Evaluating Logarithms 91856)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.62
Question:	Evaluate the following expression. Round your answer to two decimal places.

 $\log_5 e$ 

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 0.62.	

#### Question 4b of 15 (3 Evaluating Logarithms 300103)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.43
Question:	Evaluate the following expression. Round your answer to two decimal places.

 $\log_{10} e$ 

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	The correct answer is: 0.43.	

Question 4c of 15 ( 3 Evaluating Logarithms 300104 )

Maximum Attempts: 1

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.37
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>15</sub> *e* 

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 0.37.	

# Question 5a of 15 (3 Evaluating Logarithms 91857)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Evaluate the following expression. You should do this problem without a calculator.

 $e^{\ln 3}$ 

Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 3.	

# Question 5b of 15 ( 3 Evaluating Logarithms 300105 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6
Question:	Evaluate the following expression. You should do this problem without a calculator.

 $e^{\ln 6}$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 6.

# Question 5c of 15 ( 3 Evaluating Logarithms 300106 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5
Question:	Evaluate the following expression. You should do this problem without a calculator.

 $e^{\ln 5}$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5.

# Question 6a of 15 (3 Evaluating Logarithms 91858)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	e
Question:	Evaluate the following expression. You should do this problem without a calculator.

In e<sup>e</sup>

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: <i>e</i> .

#### Question 6b of 15 (3 Evaluating Logarithms 300107)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	e
Question:	Evaluate the following expression. You should do this problem without a calculator.

 $\ln e^e$ 

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: e.

# Question 6c of 15 (3 Evaluating Logarithms 300108)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	e
Question:	Evaluate the following expression. You should do this problem without a calculator.

In e<sup>e</sup>

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	

Global Incorrect Feedback	
The correct answer is: <i>e</i> .	

# Question 7a of 15 (3 Evaluating Logarithms 91859)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Evaluate the following expression. You should do this problem without a calculator.
	log₄ 256

 Attempt
 Incorrect Feedback

 1st
 Correct Feedback

 Global Incorrect Feedback
 The correct answer is: 4.

#### Question 7b of 15 (3 Evaluating Logarithms 300109)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5
Question:	Evaluate the following expression. You should do this problem without a calculator.

 $\log_2 32$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5.

#### Question 7c of 15 ( 3 Evaluating Logarithms 300110 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Evaluate the following expression. You should do this problem without a calculator.

log₅ 125

Attemp	pt Incorrect Feedback		
1st			
	С	orrect Feedback	
	Global Incorrect Feedback		
	Tł	The correct answer is: 3.	

# $\label{eq:constraint} Question \ 8a \ of \ 15 \ ( \ 3 \ Evaluating \ Logarithms \ 91860 \ )$

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Evaluate the following expression. You should do this problem without a calculator.

log<sub>2</sub> 4

Attemp	Attempt Incorrect Feedback	
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Τŀ	ne correct answer is: 2.

# Question 8b of 15 (3 Evaluating Logarithms 300111)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2

Question:

Evaluate the following expression. You should do this problem without a calculator.

log<sub>10</sub> 100

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.

#### Question 8c of 15 ( 3 Evaluating Logarithms 300112 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Evaluate the following expression. You should do this problem without a calculator.

log<sub>4</sub> 16

Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 2.	

# Question 9a of 15 (3 Evaluating Logarithms 120037)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number <i>b</i> not equal to 1 and any number or variable <i>n</i> , evaluate the following expression.
	$\log_b(b^n) = $

Attemp	empt Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: <i>n</i> .	

# Question 9b of 15 ( 3 Evaluating Logarithms 300113 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number <i>b</i> not equal to 1 and any number or variable <i>n</i> , evaluate the following expression.

 $\log_b(b^n) = \_\_\_\_$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: <i>n</i> .

# Question 9c of 15 ( 3 Evaluating Logarithms 300114 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number <i>b</i> not equal to 1 and any number or variable <i>n</i> , evaluate the following expression.

 $\log_b(b^n) =$ \_\_\_\_\_

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: <i>n</i> .

#### Question 10a of 15 (3 Evaluating Logarithms 120038)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number $b$ not equal to 1 and any number or variable $n$ , evaluate the following expression.

b <sup>log</sup> /	5 <sup>n</sup>	
w .		_

Attempt Incorrect F		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: <i>n</i> .	

#### Question 10b of 15 ( 3 Evaluating Logarithms 300115 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number $b$ not equal to 1 and any number or variable $n$ , evaluate the following expression.

b<sup>log</sup>b<sup>n</sup> = \_\_\_\_\_

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: <i>n</i> .

#### Question 10c of 15 ( 3 Evaluating Logarithms 300116 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	n
Question:	For any positive number $b$ not equal to 1 and any number or variable $n$ , evaluate the following expression.



Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: <i>n</i> .	

# Question 11a of 15 ( 3 Evaluating Logarithms 120042 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	35
Question:	Complete the following equation.

In 5 + In 7 = In \_\_\_\_\_

Attempt		Incorrect Feedback
1st		
	Correct Feedback	

Global Incorrect Feedback
The correct answer is: 35.

#### Question 11b of 15 (3 Evaluating Logarithms 300117)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	42
Question:	Complete the following equation.

ln 6 + ln 7 = ln \_\_\_\_\_

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	The correct answer is: 42.	

#### Question 11c of 15 (3 Evaluating Logarithms 300118)

1
Numeric Fill In Blank
2
40
Complete the following equation.

ln 5 + ln 8 = ln \_\_\_\_\_

Attempt	Incorrect Feedback
1st	
Correct Feedback	
Global Incorrect Feedback	
٦	he correct answer is: 40.

Question 12a of 15 ( 3 Evaluating Logarithms 120043 )Maximum Attempts:

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4*ln3, 4ln3, 4*ln(3), 4ln(3), 4*ln 3, 4ln 3, 4*ln (3), 4ln (3)
Question:	Simplify the following expression. Use an asterisk (*) for multiplication.

ln(3<sup>4</sup>)

Attemp	t Incorr	ect Feedback
1st		
	Correct Feedback	
	Global I r	ncorrect Feedback
	The correct answer is: 4*In 3.	

# Question 12b of 15 (3 Evaluating Logarithms 300119)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5*ln3, 5ln3, 5*ln(3), 5ln(3), 5*ln 3, 5ln 3, 5*ln (3), 5ln (3)
Question:	Simplify the following expression. Use an asterisk $(*)$ for multiplication.

In(3<sup>5</sup>)

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 5*In 3.	

# Question 12c of 15 ( 3 Evaluating Logarithms 300120 )

Maximum Attempts:	1		
Question Type:	Text Fill In Blank		
Maximum Score:	2		
Is Case Sensitive:	false		
Correct Answer:	3*ln2, 3ln2, 3*ln(2), 3ln(2), 3*ln 2, 3ln 2, 3*ln (2), 3ln (2)		

Question:

Simplify the following expression. Use an asterisk (\*) for multiplication.

ln(2<sup>3</sup>)

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	Tł	ne correct answer is: 3*In 2.

#### Question 13a of 15 (3 Evaluating Logarithms 120045)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Evaluate the following expression.

log₃ 9

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	Tł	ne correct answer is: 2.

# Question 13b of 15 ( 3 Evaluating Logarithms 300122 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Evaluate the following expression.

log<sub>9</sub> 81

Attempt	Incorrect Feedback
1st	
	Correct Feedback

Global Incorrect Feedback
The correct answer is: 2.

# Question 13c of 15 ( 3 Evaluating Logarithms 300124 )

Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	2	
Question:	Evaluate the following expression.	

log<sub>8</sub> 64

Attempt Incorrect Feedback		
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 2.	

# Question 14a of 15 (3 Evaluating Logarithms 120046)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Evaluate the following expression.

 $e^{\ln 4}$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st	lst	
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 4.	

#### Question 14b of 15 (3 Evaluating Logarithms 300125)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	Evaluate the following expression
	e <sup>ln 7</sup>

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
The correct answer is: 7.		

#### Question 14c of 15 ( 3 Evaluating Logarithms 300126 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Evaluate the following expression.
	e <sup>ln 2</sup>

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
The correct answer is: 2.		ne correct answer is: 2.

#### Question 15a of 15 ( 3 Evaluating Logarithms 120047 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.26
Question:	Evaluate the following expression. Round your answer to two decimal

places.

log₃ 12

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.26.

#### Question 15b of 15 ( 3 Evaluating Logarithms 300127 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3.32
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>2</sub> 10

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 3.32.	

# Question 15c of 15 ( 3 Evaluating Logarithms 300128 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.81
Question:	Evaluate the following expression. Round your answer to two decimal places.

log<sub>2</sub> 7

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: 2.91

	PREVIEW	CLOSE
Quiz: Equivalent Exponential Expressions		

#### Question 1a of 8 ( 2 Evaluating Exponential Expressions 91837 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $5^4 \bullet 5^x$ 

**Correct Answers:** 

	Cho	bice	
* <b>A</b> .	625	• 5 <sup>x</sup>	
В.	5 <sup>4 - x</sup>		
C.	(5 🖷	• x) <sup>4</sup>	
*D.	5 <sup>4</sup> + <i>x</i>		
Ε.	5 <sup>4</sup>		
F.	25 <sup>4</sup>		
Attempt Incorrect Feedback			
1st			
Correct Feedback		٦	
Global Incorrect Feedback			
	The correct answers are: 625 $\bullet$ 5 <sup><i>x</i></sup> and 5 <sup>4</sup> + <sup><i>x</i></sup> .		

# Question 1b of 8 ( 2 Evaluating Exponential Expressions 299657 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $7^3 \bullet 7^x$ 

	Choice	
Α.	49 <sup>3x</sup>	
В.	7 <sup>3 - x</sup>	
C.	$(7 \bullet x)^3$	
D.	7 <sup>3</sup>	
*E.	7 <sup>3</sup> + <i>x</i>	
*F.	343 • 7 <sup>x</sup>	

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answers are: 343 $\bullet$ 7 <sup><i>x</i></sup> and 7 <sup>3 + <i>x</i></sup> .	

# Question 1c of 8 ( 2 Evaluating Exponential Expressions 299658 )

1
Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.

3<sup>4</sup> • 3<sup>x</sup>

	Choice
Α.	3 <sup>4 - x</sup>
*B.	81 ● 3 <sup>x</sup>
C.	$(3 \bullet x)^4$
D.	3 <sup>4</sup> <i>x</i>
*E.	3 <sup>4</sup> + <i>x</i>
F.	9 <sup>4</sup> <i>x</i>

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Global Incorrect Feedback
The correct answers are: 81 $\bullet$ 3 <sup>x</sup> and 3 <sup>4</sup> + <sup>x</sup> .

# Question 2a of 8 ( 2 Evaluating Exponential Expressions 91838 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

5<sup>3</sup> • 5<sup>x</sup>

Correct Answers:

	Choice
*A.	125 •5 <sup>x</sup>
*B.	5 <sup>3</sup> + <i>x</i>
C.	25 <sup>3x</sup>
D.	5 <sup>3x</sup>
Ε.	$(5 \bullet x)^3$
F.	5 <sup>3 - x</sup>

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	Tł	The correct answers are: $125 \bullet 5^x$ and $5^{3+x}$ .

# Question 2b of 8 ( 2 Evaluating Exponential Expressions 299659 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	$2^5 \bullet 2^x$

#### **Correct Answers:**

	Choice
Α.	4 <sup>5</sup> <i>x</i>
В.	2 <sup>5</sup> <i>x</i>
*C.	32 ●2 <sup>x</sup>
*D.	2 <sup>5</sup> + <i>x</i>
Ε.	(2 ■ <i>x</i> ) <sup>5</sup>
F.	2 <sup>5 - x</sup>

Attemp	Attempt Incorrect Feedback		
1st	1st		
	C	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł	The correct answers are: $32 \cdot 2^x$ and $2^{5+x}$ .	

# Question 2c of 8 ( 2 Evaluating Exponential Expressions 299660 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $4^3 \bullet 4^x$ 

	Cho	ice	
Α.	(4 •	<i>x</i> ) <sup>3</sup>	
*B.	4 <sup>3 +</sup>	x	
C.	16 <sup>3x</sup>		
D.	4 <sup>3x</sup>		
*E.	64 🖷	4 <sup>x</sup>	
F.	4 <sup>3 - 7</sup>	(	
Atte	mpt	Incorrect Feedback	
1st			
	С	orrect Feedback	1

Global Incorrect Feedback
The correct answers are: $4^{3+x}$ and $64 = 4^{x}$ .

# Question 3a of 8 (2 Evaluating Exponential Expressions 91839)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

64<sup>×</sup>

**Correct Answers:** 

	Choice
Α.	8 ●8 <sup>×</sup>
*B.	8 <sup>2</sup>
*C.	8 <sup>x</sup> • 8 <sup>x</sup>
D.	8 <sup>2</sup> ■8 <sup><i>x</i></sup>
*E.	(8 • 8) <sup>x</sup>
F.	8 • 8 <sup>2x</sup>

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answers are: $8^{2x}$ , $8^x \bullet 8^x$ , and $(8 \bullet 8)^x$ .	

#### Question 3b of 8 ( 2 Evaluating Exponential Expressions 299661 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	81 <sup>×</sup>

#### **Correct Answers:**

	Cho	pice
*A.	9 <sup>2</sup>	
В.	9∎	9 <sup>×</sup>
C.	<b>9</b> <sup>2</sup>	• 9 <sup>x</sup>
*D.	9 <sup>x</sup>	9 <sup>x</sup>
Ε.	9 •	9 <sup>2x</sup>
*F.	(9	• 9) <sup>x</sup>
Atte	mpt	Incorrect Feedback
1st		
	C	Correct Feedback
	C	Global Incorrect Feedback
	T 9	The correct answers are: $9^{2x}$ , $9^x \bullet 9^x$ , and ( $9 \bullet 0$ ) <sup>x</sup> .

# Question 3c of 8 ( 2 Evaluating Exponential Expressions 299662 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

16<sup>×</sup>

	Choice
* <b>A</b> .	4 <sup>2</sup> <i>x</i>
В.	$4 \bullet 4^{2x}$
C.	4 ●4×
D.	$4^2 \bullet 4^x$
*E.	4 <sup>x</sup> ■4 <sup>x</sup>
*F.	$(4 \bullet 4)^{x}$

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answers are: $4^{2x}$ , $4^x \bullet 4^x$ , and $(4 \bullet 4)^x$ .

# Question 4a of 8 (2 Evaluating Exponential Expressions 91840)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	25 <sup>×</sup>

**Correct Answers:** 

	Choice
Α.	5 ●5 <sup>×</sup>
В.	$5^2 \bullet 5^x$
C.	5 ●5 <sup>2x</sup>
*D.	(5 ●5) <sup>x</sup>
*E.	5 <sup>2x</sup>
*F.	5 <sup>x</sup> ● 5 <sup>x</sup>

Attempt Incorrect Feedback		ncorrect Feedback
1st		
	Cori	rect Feedback
	Glob	bal Incorrect Feedback
	The 5 <sup>x</sup> .	correct answers are: $(5 \bullet 5)^x$ , $5^{2x}$ , and $5^x \bullet$

# Question 4b of 8 ( 2 Evaluating Exponential Expressions 299663 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that

apply.

49<sup>×</sup>

**Correct Answers:** 

	Cho	pice
*A.	(7	•7) <sup>×</sup>
В.	7 <sup>2</sup>	7 <sup>x</sup>
*C.	7 <sup>2x</sup>	
D.	7 🖷	7 <sup>x</sup>
Ε.	7 •	7 <sup>2x</sup>
*F.	7 <sup>×</sup> •	•7 <sup>×</sup>
Atte	mpt	Incorrect Feedback
1st		
	C	Correct Feedback
	C	Global Incorrect Feedback
	The correct answers are: $(7 \bullet 7)^x$ , $7^{2x}$ , and $7^x \bullet 7^x$ .	

# Question 4c of 8 ( 2 Evaluating Exponential Expressions 299664 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

9×

	Choice
*A.	(3 ● 3) <sup>x</sup>
*B.	3 <sup>2x</sup>
C.	$3 \bullet 3^{2x}$
D.	3∎ 3 <sup>x</sup>
Ε.	$3^2 \bullet 3^x$
*F.	3 <sup>x</sup> ■ 3 <sup>x</sup>

Attemp	ot	Incorrect Feedback
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
	Tł 3'	The correct answers are: $(3 \bullet 3)^x$ , $3^{2x}$ , and $3^x \bullet 3^{2x}$ .

# **Question 5a of 8** ( 2 Evaluating Exponential Expressions 91841 )

Maximum Attempts:	
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	04X

21× 3×

#### **Correct Answers:**

	Choice
Α.	(21 - 3) <sup>x</sup>
В.	7
*C.	7 <sup>x</sup>
*D.	$\left(\frac{21}{3}\right)^{x}$
*E.	$\frac{7^{*} \cdot 3^{*}}{3^{*}}$
F.	3 <sup>x</sup>

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback

The correct answers are:  $7^{x}$ ,



#### Question 5b of 8 ( 2 Evaluating Exponential Expressions 299666 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

<u>27 ×</u> 9×

#### **Correct Answers:**

	Choice
Α.	(27 - 9) <sup>x</sup>
*B.	$\left(\frac{27}{9}\right)^{\times}$
C.	9 <sup>x</sup>
D.	9
*E.	9 <sup>×</sup> •3 <sup>×</sup> 9 <sup>×</sup>
*F.	3 <sup>×</sup>

Attempt		Incorrect Feedback
1st	1st	
	С	orrect Feedback
	G	lobal Incorrect Feedback
	ті 9	$\frac{\mathbf{x} \cdot \mathbf{y}^{\mathbf{x}}}{\mathbf{y}^{\mathbf{x}}}, \text{ and } \left(\frac{\mathbf{z}^{\mathbf{y}}}{\mathbf{y}}\right)^{\mathbf{x}}.$

#### Question 5c of 8 ( 2 Evaluating Exponential Expressions 299667 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2

Question:

Which expressions are equivalent to the one below? Check all that apply.

**Correct Answers:** 

	Cho	bice	
Α.	$(21 - 7)^{x}$		
В.	3	3	
*C.	3 <sup><i>x</i></sup>		
D.	3 <sup>x-7</sup>		
*E.	$\frac{7^{\times} \cdot 3^{\times}}{7^{\times}}$		
*F.	$\left(\frac{21}{7}\right)^{x}$		
	empt Incorrect Feedback		
Atte	mpt	Incorrect Feedback	
Atte 1st	mpt	Incorrect Feedback	
Atte 1st	mpt	Incorrect Feedback	
Atte 1st		Incorrect Feedback	
Atte 1st		Incorrect Feedback Correct Feedback	
Atte 1st		Incorrect Feedback Correct Feedback Global Incorrect Feedback The correct answers are: 3 <sup>x</sup> ,	

# Question 6a of 8 (2 Evaluating Exponential Expressions 91842)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

 $\frac{25^{\times}}{5^{\times}}$ 

	Choice	
*A.	5 <sup>x</sup>	

В.	5
*C.	$\left(\frac{25}{5}\right)^{\times}$
*D.	$\frac{5^{\times} \bullet 5^{\times}}{5^{\times}}$
E.	(25 - 5) <sup>x</sup>
F.	25 <sup>x</sup>

Attemp	Attempt Incorrect Feedback	
1st	1st	
	Co	orrect Feedback
	G	lobal Incorrect Feedback
	Tř (2 :	the correct answers are: $5^{x}$ , $\left(\frac{25}{5}\right)^{x}$ , and $\frac{5^{x} \cdot 5^{x}}{5^{x}}$ .

# Question 6b of 8 ( 2 Evaluating Exponential Expressions 299668 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

	Choice
Α.	4
*B.	4 <sup>x</sup>
*C.	$\left(\frac{16}{4}\right)^{x}$
*D.	<u>4× 04×</u> <u>4×</u>
Ε.	(16 - 4) <sup>x</sup>
F.	16 <sup>x</sup>

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answers are: $4^{x}$ , $\left(\frac{16}{4}\right)^{x}$ , and $\frac{4^{x} \cdot 4^{x}}{4^{x}}$ .	

# Question 6c of 8 ( 2 Evaluating Exponential Expressions 299670 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

	Choice
Α.	(36 - 6) <sup>x</sup>
В.	6
*C.	$\left(\frac{36}{6}\right)^{x}$
*D.	<u>6ו6×</u> 6×
*E.	6 <sup>x</sup>
F.	36 <sup>x</sup>

Attempt	Incorrect Feedback
1st	

Correct Feedback
 Global Incorrect Feedback
The correct answers are: $6^{x}$ , $\frac{5^{x} \cdot 6^{x}}{6^{x}}$ , and $\left(\frac{36}{6}\right)^{x}$ .

#### Question 7a of 8 (2 Evaluating Exponential Expressions 91843)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

5<sup>x</sup>

#### Correct Answers:

	Choice	
*A.	$\frac{15^{\times}}{3^{\times}}$	
В.	<b>x</b> <sup>5</sup>	
C.	5 • 5 <sup><i>x</i> + 1</sup>	
*D.	$\left(\frac{15}{3}\right)^{\times}$	
*E.	5 • 5 <sup><i>x</i>-1</sup>	
F.	15 <sup>×</sup> 3	

Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	Biobai meen een eeubaek	
	The correct answers are: $5 \bullet 5^{x-1}$ ,	

# Question 7b of 8 ( 2 Evaluating Exponential Expressions 299671 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

3<sup>*x*</sup>

**Correct Answers:** 

	Cho	vice		
*A.	15* 5*	15* 5*		
В.	<i>X</i> <sup>3</sup>			
C.	3● 3	3 <sup><i>x</i> + 1</sup>		
D.	15* 5	15 <sup>×</sup> 5		
*E.	$\left(\frac{15}{5}\right)$	$\left(\frac{15}{5}\right)^{x}$		
*F.	$3 \bullet 3^{x-1}$			
Atte	Attempt Incorrect Feedback			
1st	1st			
	С	orrect Feedback		
	G	ilobal Incorrect Feedback		
	The correct answers are: $3 \bullet 3^{x-1}$ , $\frac{15^{x}}{5^{x}}$ , and $\left(\frac{15}{5}\right)^{x}$ .			

# **Question 7c of 8** ( 2 Evaluating Exponential Expressions 299672 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

3<sup>*x*</sup>

	Choice
*A.	$\left(\frac{18}{6}\right)^{x}$
В.	<i>x</i> <sup>3</sup>
*C.	18* 6*

D.	$3 \bullet 3^{x+1}$		
*E.	$3 \bullet 3^{x-1}$		
F.	<u>18*</u> .3		
Atte	mpt	Incorrect Feedback	
1st			
	C	Correct Feedback	
	C	Global Incorrect Feedback	
	The correct answers are: $3 \cdot 3^{x-1}$ , $\frac{18}{3^{x}}$ , and $\frac{18}{6}^{x}$ .		

# Question 8a of 8 ( 2 Evaluating Exponential Expressions 91844 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.
	9 <sup>×</sup>

	Choice	
*A.	9 <b>●</b> 9 <sup><i>x</i> - 1</sup>	
*B.	$\left(\frac{36}{4}\right)^{\times}$	
C.	9 <b>●</b> 9 <sup><i>x</i> + 1</sup>	
D.	36 <sup>×</sup> 4	
*E.	$\frac{36^{\times}}{4^{\times}}$	
F.	<b>x</b> <sup>5</sup>	

Attempt	Incorrect Feedback
1st	
Correct Feedback	
--	
Global Incorrect Feedback	
The correct answers are: $9 \cdot 9^{x-1}$ , $\left(\frac{36}{4}\right)^{x}$ , and $\frac{36^{x}}{4^{x}}$ .	

# Question 8b of 8 ( 2 Evaluating Exponential Expressions 299673 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

8<sup>x</sup>

#### **Correct Answers:**

	Cho	ice	
Α.	<i>x</i> <sup>4</sup>		
*B.	$\left(\frac{32}{4}\right)$	z	
C.	8 • 8	3 <sup>x + 1</sup>	
*D.	<u>32'</u> 4×	( 	
E.	<u>32</u> ° 4	e 	
*F.	8 • 8	3 <sup>x - 1</sup>	
Atte	mpt	Incorrect Feedback	
1st			

Correct Feedback
Global Incorrect Feedback
The correct answers are: $8 \cdot 8^{x-1}$ , $\frac{32^{x}}{4^{x}}$ , and $\left(\frac{32}{4}\right)^{x}$ .

# Question 8c of 8 ( 2 Evaluating Exponential Expressions 299674 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which expressions are equivalent to the one below? Check all that apply.

10<sup>x</sup>

#### Correct Answers:

		Choi	ce	
	Α.	<u>50 ×</u> 5		
	*B.	10 •	10 <sup>x - 1</sup>	
	C.	10 •	10 <sup><i>x</i> + 1</sup>	
	*D.	<u>50 ×</u> 5×		
	*E.	$\left(\frac{50}{5}\right)^{2}$	(	
	F.	<i>x</i> <sup>5</sup>		
Ī	Atte	mpt	Incorrect Feedback	
	1st			
Ī		Co	orrect Feedback	
ſ		GI	obal Incorrect Feedback	
Ī		Th <u>50</u> €	e correct answers are: 10 • $\frac{D^{x}}{T^{x}}$ , and $\left(\frac{50}{5}\right)^{x}$ .	910 <sup>x - 1</sup> ,

	PREVIEW	CLOSE	
Quiz: Solving Exponential Equations			

### Question 1a of 15 (3 Solving Exponential Equations 91861)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.77
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: 1.77.		

# Question 1b of 15 (3 Solving Exponential Equations 300211)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.93
Question:	Solve the equation for $x$ . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $e^{x} = 6.9$ 

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 1.93.	

Question 1c of 15 (3 Solving Exponential Equations 300212)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.07
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $e^{x} = 7.9$ 

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 2.07.	

# Question 2a of 15 (3 Solving Exponential Equations 91862)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.87
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $e^{x} = 6.5$ 

Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 1.87.	

### Question 2b of 15 ( 3 Solving Exponential Equations 300213 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.7
Question:	Solve the equation for x. Round your answer to two decimal places, and

do not include "x =" in your answer.

Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	Tł	ne correct answer is: 1.70.

 $e^{x} = 5.5$ 

Question 2c of 15 (3 Solving Exponential Equations 300214)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.5
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt		Incorrect Feedback
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 1.50.	

# Question 3a of 15 (3 Solving Exponential Equations 91863)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.02
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $3^{x} = 9.1999$ 

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: 2.02.

### Question 3b of 15 (3 Solving Exponential Equations 300215)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.6
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $4^{x} = 9.1999$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 1.60.	

### Question 3c of 15 (3 Solving Exponential Equations 300218)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.38
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5^{x} = 9.1999$ 

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback

### Question 4a of 15 (3 Solving Exponential Equations 91864)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.51
Question:	Solve the equation for $x$ . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt Incorrect Feedback		ncorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
	The correct answer is: 2.51.		

#### Question 4b of 15 (3 Solving Exponential Equations 300219)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.58
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $3^{x} = 5.6962$ 

Attempt Incorrect Feedbac		Incorrect Feedback
1st		
	Correct Feedback	
	G	lobal Incorrect Feedback
	The correct answer is: 1.58.	

 $\label{eq:constraint} Question \ 4c \ of \ 15 \ ( \ {\tt 3 \ Solving \ Exponential \ Equations \ 300220 \ )}$ 

Maximum Attempts: 1

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.25
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $4^{x} = 5.6962$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 1.25.	

# Question 5a of 15 (3 Solving Exponential Equations 91865)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.37
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $3 \bullet e^x = 11.76$ 

Attemp	ttempt Incorrect Feedback		
1st			
Correct Feedback			
	Global Incorrect Feedback		
	The correct answer is: 1.37.		

#### Question 5b of 15 (3 Solving Exponential Equations 300221)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.16
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$4 \bullet e^x = 12.76$	
Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 1.16.	

### Question 5c of 15 ( 3 Solving Exponential Equations 300222 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.15
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

5	• e <sup>x</sup>	=	15.76	
---	------------------	---	-------	--

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: 1.15.	

# Question 6a of 15 ( 3 Solving Exponential Equations 91866 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.51
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $4 \cdot 8^{x} = 11.48$ 

Attemp	Incorrect Feedback
1st	
	Correct Feedback

Global Incorrect Feedback
The correct answer is: 0.51.

# Question 6b of 15 ( 3 Solving Exponential Equations 300223 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.42
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$5 \bullet 9^x = 12.48$
Attempt	Incorrect Feedback
1st	
0	Correct Feedback
	Blobal Incorrect Feedback
Г	he correct answer is: 0.42.

# Question 6c of 15 (3 Solving Exponential Equations 300224)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.64
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$3 \bullet 7^x = 10.48$		
Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: 0.64.	

#### Question 7a of 15 (3 Solving Exponential Equations 91867)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.35
Question:	Solve the equation for $x$ . Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " $x =$ " in your answer).

$7 \bullet e^x = 27.09$	)9
-------------------------	----

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
The correct answer is: 1.35.		ne correct answer is: 1.35.

#### Question 7b of 15 ( 3 Solving Exponential Equations 300225 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.54
Question:	Solve the equation for $x$ . Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " $x =$ " in your answer).

 $6 \bullet e^x = 28.09$ 

Attemp	Incorrect Feedback
1st	
Correct Feedback	
	Global Incorrect Feedback
The correct answer is: 1.54.	

### Question 7c of 15 ( 3 Solving Exponential Equations 300226 )

Maximum Attempts:1Question Type:Numeric Fill In Blank

Maximum Score:	2
Correct Answer:	1.79
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " $x =$ " in your answer).

 $5 \cdot e^x = 30.09$ 

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
The correct answer is: 1.79.			

### Question 8a of 15 (3 Solving Exponential Equations 91868)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.68
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $8 \cdot 9^{x} = 35.68$ 

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
	Global Incorrect Feedback		
	The correct answer is: 0.68.		

# Question 8b of 15 ( 3 Solving Exponential Equations 300227 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.78
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$9 \bullet 8^{x} = 45.68$		
Attempt		Incorrect Feedback
1st		
Correct Feedback		
Global Incorrect Feedback		
	Tł	ne correct answer is: 0.78.

### Question 8c of 15 ( 3 Solving Exponential Equations 300228 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.94
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $7 \cdot 9^{x} = 55.68$ 

Attempt		ncorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
The correct answer is: 0.94.		e correct answer is: 0.94.

# Question 9a of 15 ( 3 Solving Exponential Equations 120054 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-0.69
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $e^{x} = 0.5$ 

Attempt	Incorrect Feedback
1st	
C	Correct Feedback

Global Incorrect Feedback
The correct answer is: -0.69.

# Question 9b of 15 ( 3 Solving Exponential Equations 300229 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-0.51
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$e^{x}$	=	0.6
$e^{x}$	=	0.6

Attempt I		Incorrect Feedback	
1st			
	Correct Feedback		
	G	lobal Incorrect Feedback	
	The correct answer is: -0.51.		

# Question 9c of 15 ( 3 Solving Exponential Equations 300230 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-0.36
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$e^{x} = 0.7$		
Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -0.36.

#### Question 10a of 15 (3 Solving Exponential Equations 120055)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.49
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5^{x} = 55$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.49.

#### Question 10b of 15 (3 Solving Exponential Equations 300231)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.23
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	G	lobal Incorrect Feedback	
The correct answer is: 2.23.			

#### Question 10c of 15 (3 Solving Exponential Equations 300232)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2

Correct Answer:	2.34
Question:	Solve the equation for x. Round your answer to two decimal places, and
	do not include "x =" in your answer.

6<sup>x</sup> = 66

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.34

### Question 11a of 15 ( 3 Solving Exponential Equations 120056 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.64
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.64.

# Question 11b of 15 ( 3 Solving Exponential Equations 300233 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.56
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $4 \bullet e^{x} = 52$ 

Attemp	t Incorrect Feedback	
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 2.56.	

# Question 11c of 15 (3 Solving Exponential Equations 300234)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.52
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5 \bullet e^x = 62$ 

Attempt		Incorrect Feedback
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 2.52.

### Question 12a of 15 (3 Solving Exponential Equations 120057)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.02
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

6 •4 <sup>x</sup>	= 99
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Attempt	Incorrect Feedback
1st	
	Correct Feedback

Global Incorrect Feedback
The correct answer is: 2.02.

# Question 12b of 15 ( 3 Solving Exponential Equations 300235 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.83
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

Attemp	ot	Incorrect Feedback	
1st	st		
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: 1.83.		

7 •4<sup>*x*</sup> = 89

# Question 12c of 15 (3 Solving Exponential Equations 300236)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.12
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

5 T = 75				
Attempt		Incorrect Feedback		
1st				
	Correct Feedback			
	Global Incorrect Feedback			
	The correct answer is: 2.12.			

 $5 \bullet 4^{x} = 95$ 

#### Question 13a of 15 (3 Solving Exponential Equations 120058)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.8
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $4e^{2x} + 16 = 36$ 

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: 0.80.		

#### Question 13b of 15 (3 Solving Exponential Equations 300237)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	0.8
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5e^{2x} + 16 = 41$ 

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: 0.80.		

Question 13c of 15 (3 Solving Exponential Equations 300238)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2

Correct Answer:	0.8
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $3e^{2x} + 16 = 31$ 

Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 0.80.	

#### Question 14a of 15 (3 Solving Exponential Equations 120060)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	simplify
Question:	Sometimes you'll need to more complicated exponential equations before using the strategies you learned.

Attempt Incorrect Feedback		Incorrect Feedback	
1st			
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: simplify.		

#### Question 14b of 15 (3 Solving Exponential Equations 300239)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	simplify
Question:	Sometimes you'll need to more complicated exponential equations before using the strategies you learned.

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: simplify.

### Question 14c of 15 ( 3 Solving Exponential Equations 300240 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	simplify
Question:	Sometimes you'll need to more complicated exponential equations before using the strategies you learned.

Attempt Incorrect Feedback		
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: simplify.	

# Question 15a of 15 (3 Solving Exponential Equations 120061)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	a
Question:	To solve an equation of the form $a \bullet b^x = d$ , you should first divide both sides by the coefficient

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Global Incorrect Feedback		

# Question 15b of 15 (3 Solving Exponential Equations 300241)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	C
Question:	To solve an equation of the form $a \bullet b^x + c = d$ , you should first subtract both sides by the constant

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: c.

# Question 15c of 15 ( 3 Solving Exponential Equations 300242 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	а
Question:	To solve an equation of the form $a \bullet b^x = d$ , you should first divide both sides by the coefficient

Attemp	ot Incorrect Feedback		
1st			
Correct Feedback			
	Global Incorrect Feedback		
	The correct answer is: <i>a</i> .		

	PREVIEW	CLOSE	
Quiz: Solving Logarithmic Equations			

### Question 1a of 15 ( 3 Solving Logarithmic Equations 91907 )

1
Numeric Fill In Blank
2
18.38
Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
The correct answer is: 18.38.		

# Question 1b of 15 ( 3 Solving Logarithmic Equations 300265 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	29.37
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$\log_5$	х	=	2.	1
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Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		orrect Feedback
	Global Incorrect Feedback	
	The correct answer is: 29.37.	

Question 1c of 15 ( 3 Solving Logarithmic Equations 300266 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	43.06
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\log_6 x = 2.1$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
	Global Incorrect Feedback	
	The correct answer is: 43.06.	

# Question 2a of 15 ( 3 Solving Logarithmic Equations 91908 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	12.51
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\log_3 x = 2.3$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		orrect Feedback
	G	lobal Incorrect Feedback
The correct answer is: 12.51.		ne correct answer is: 12.51.

### $\label{eq:constraint} Question \ 2b \ of \ 15 \ ( \ {\tt 3 \ Solving \ Logarithmic \ Equations \ 300267 \ )}$

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5.66
Question:	Solve the equation for x. Round your answer to two decimal places, and

#### do not include "x =" in your answer.

Attemp	ot	Incorrect Feedback
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
The correct answer is: 5.66.		ne correct answer is: 5.66.

#### $\log_2 x = 2.5$

#### Question 2c of 15 ( 3 Solving Logarithmic Equations 300268 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	11.21
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 11.21.	

# Question 3a of 15 (3 Solving Logarithmic Equations 91909)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	134.22 - 134.29
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\ln x = 4.9$ 

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: 134.29

### Question 3b of 15 ( 3 Solving Logarithmic Equations 300269 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	364.81 - 365.04
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\ln x = 5.9$ 

Attempt		Incorrect Feedback
1st		
	Co	orrect Feedback
	CI	lobal Incorrect Feedback
	Th	ne correct answer is: 365.04.
	•••	

### 

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	991.57 - 992.27
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\ln x = 6.9$ 

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback

### Question 4a of 15 (3 Solving Logarithmic Equations 91910)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	60.31 - 60.34
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.



Attemp	t Incorrect Feedback	
1st		
Correct Feedback		
	Global Incorrect Feedback	
	The correct answer is: 60.34.	

#### Question 4b of 15 (3 Solving Logarithmic Equations 300272)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	22.19 - 22.2
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$$\ln x = 3.1$$

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 22.20.

Question 4c of 15 (3 Solving Logarithmic Equations 300273)

Maximum Attempts: 1

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8.16 - 8.17
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

ln *x* = 2.1

Attempt Incorrect Fe		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	The correct answer is: 8.17.	

# Question 5a of 15 (3 Solving Logarithmic Equations 91911)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9.02 - 9.03
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

1	5.	4	=	7	•	In	х

Attemp	ot	t Incorrect Feedback	
1st	t		
	Correct Feedback		
	Global Incorrect Feedback		
	The correct answer is: 9.03.		

### $\label{eq:constraint} Question ~5b~of~15~\mbox{( 3 Solving Logarithmic Equations 300274 )}$

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6.05
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$14.4 = 8 \bullet \ln x$	
Attempt	Incorrect Feedback	
1st		
c	orrect Feedback	
	ilobal Incorrect Feedback	
Т	The correct answer is: 6.05.	

### Question 5c of 15 ( 3 Solving Logarithmic Equations 300275 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9.33
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $13.4 = 6 \ln x$ 

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	Global Incorrect Feedback		
	The correct answer is: 9.33.		

# Question 6a of 15 ( 3 Solving Logarithmic Equations 91912 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	16.44
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $2 \cdot \ln x = 5.6$ 

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Global Incorrect Feedback
The correct answer is: 16.44.

# Question 6b of 15 ( 3 Solving Logarithmic Equations 300276 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	12.59 - 12.6
Question:	Solve the equation for $x$ . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	3 ● In <i>x</i> = 7.6			
Attemp	ot Incorrect Feedback			
1st				
	Correct Feedback			
	Global Incorrect Feedback			
	The correct answer is: 12.60.			

# Question 6c of 15 (3 Solving Logarithmic Equations 300277)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8.58
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	4 • In $x = 8.6$
Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: 8.58.

#### Question 7a of 15 (3 Solving Logarithmic Equations 91913)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	13.46
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5 + 8 \bullet \ln x = 25.8$ 

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 13.46.

#### Question 7b of 15 (3 Solving Logarithmic Equations 300278)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	16.92
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $6 + 7 \bullet \ln x = 25.8$ 

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 16.92.

Question 7c of 15 (3 Solving Logarithmic Equations 300279)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2

Correct Answer:	11.27
Question:	Solve the equation for x. Round your answer to two decimal places, and
	do not include "x =" in your answer.

 $4 + 9 \bullet \ln x = 25.8$ 

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 11.27.

### Question 8a of 15 (3 Solving Logarithmic Equations 91914)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	13.46
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$$7 + 6 \bullet \ln x - 22.6 = 0$$

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 13.46.

# Question 8b of 15 ( 3 Solving Logarithmic Equations 300280 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	10.71
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $6 + 7 \bullet \ln x - 22.6 = 0$ 

Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 10.71.	

# Question 8c of 15 ( 3 Solving Logarithmic Equations 300281 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	18.54
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $8 + 5 \bullet \ln x - 22.6 = 0$ 

Attemp	tempt Incorrect Feedback	
1st		
	C	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 18.54.

# Question 9a of 15 ( 3 Solving Logarithmic Equations 120063 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	19.42
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$\log_3 x$	=	2.7	
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Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Global Incorrect Feedback
The correct answer is: 19.42.

# $\label{eq:constraint} Question ~9b~of~15~(~{\tt 3}~{\tt Solving}~{\tt Logarithmic}~{\tt Equations}~{\tt 300282}~)$

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	10.56
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$\log_4 x = 1.7$
Attemp	t Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: 10.56.

Question 9c of	${f 15}$ ( 3 Solving Logarithmic Equations 300283 )
Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	11.18
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

	$\log_5 x = 1.5$
Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: 11.18.

#### Question 10a of 15 (3 Solving Logarithmic Equations 120064)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	1.22
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\ln x = 0.2$ 

Attemp	pt Incorrect Feedback	
1st	1st	
	С	orrect Feedback
	Global Incorrect Feedback	
	Tł	ne correct answer is: 1.22.

#### Question 10b of 15 ( 3 Solving Logarithmic Equations 300284 )

Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	1.35	
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.	



Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 1.35.

#### Question 10c of 15 (3 Solving Logarithmic Equations 300285)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2

Correct Answer:	1.49
Question:	Solve the equation for x. Round your answer to two decimal places, and
	do not include " $x =$ " in your answer.

$$\ln x = 0.4$$

Attemp	ot	Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 1.49.

### Question 11a of 15 (3 Solving Logarithmic Equations 120065)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	148.34 - 148.41
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

$3 \bullet \ln x = 15$	
Attempt	Incorrect Feedback
1st	
С	orrect Feedback
G	lobal Incorrect Feedback
TI	ne correct answer is: 148.41.

# Question 11b of 15 ( 3 Solving Logarithmic Equations 300286 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	403.18 - 403.43
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

3 • ln *x* = 18
Attempt Incorrect Feedback		
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 403.43.	

# Question 11c of 15 ( 3 Solving Logarithmic Equations 300287 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	20.08 - 20.09
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

7 ■ln *x* = 21

Attemp	t Ir	ncorrect Feedback
1st		
	Cor	rect Feedback
	Glo	bal Incorrect Feedback
	The	correct answer is: 20.09.

# Question 12a of 15 ( 3 Solving Logarithmic Equations 120066 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.83
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $5 + 6 \cdot \log_2 x = 14$ 

Attemp	Incorrect Feedback
1st	
	Correct Feedback

Global Incorrect Feedback
The correct answer is: 2.83.

# Question 12b of 15 ( 3 Solving Logarithmic Equations 300288 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2.21
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	The correct answer is: 2.21.	

 $6 + 7 \cdot \log_2 x = 14$ 

# Question 12c of 15 (3 Solving Logarithmic Equations 300289)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5.66
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

Attemp	Attempt Incorrect Feedback	
1st	1st	
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 5.66.

 $4 + 4 \cdot \log_2 x = 14$ 

# Question 13a of 15 ( 3 Solving Logarithmic Equations 120069 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-2400
Question:	Solve the equation for x. Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\log_7(1 - x) = 4$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -2400.

## Question 13b of 15 ( 3 Solving Logarithmic Equations 300290 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1295
Question:	Solve the equation for <i>x</i> . Round your answer to two decimal places, and do not include " $x =$ " in your answer.

 $\log_6(1 - x) = 4$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Global Incorrect Feedback		lobal Incorrect Feedback
	Tł	ne correct answer is: -1295.

Question 13c of 15 (3 Solving Logarithmic Equations 300291)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2

Correct Answer:	-342
Question:	Solve the equation for x. Round your answer to two decimal places, and
	do not include "x =" in your answer.

 $\log_7(1 - x) = 3$ 

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: -342.

## Question 14a of 15 ( 2 Solving Logarithmic Equations 329795 )

Question Type:True-FalseMaximum Score:2Question:You can solve an equation of the form $log_b x = a$ by using the definition of a logarithm to write an equivalent exponential equation.	Maximum Attempts:	1
Maximum Score:2Question:You can solve an equation of the form $\log_b x = a$ by using the definition of a logarithm to write an equivalent exponential equation.	Question Type:	True-False
<b>Question:</b> You can solve an equation of the form $\log_b x = a$ by using the definition of a logarithm to write an equivalent exponential equation.	Maximum Score:	2
	Question:	You can solve an equation of the form $\log_b x = a$ by using the definition of a logarithm to write an equivalent exponential equation.

	Choice	Feedback
*A.	True	
В.	False	

#### Global Incorrect Feedback

The correct answer is: True.

## Question 14b of 15 (2 Solving Logarithmic Equations 329796)

Question:	You can solve an equation of the form $\log_b x = a$ by using the definition of a logarithm to write an equivalent exponential equation.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice	Feedback	
*A.	True		
В.	False		

Global Incorrect Feedback

The correct answer is: True.

# Question 14c of 15 ( 2 Solving Logarithmic Equations 329797 )

1

Maximum Attempts:

Question Type:True-FalseMaximum Score:2Question:You can solve an equation of the form  $log_b x = a$  by using the definition of a logarithm to write an equivalent exponential equation.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

## Question 15a of 15 (2 Solving Logarithmic Equations 120071)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	a
Question:	Sometimes you'll need to simplify more complicated logarithmic equations before using the strategy you learned. For example, to solve an equation of the form $a \bullet \log_b x = d$ , you should first divide both sides of the equation by the coefficient

Attemp	t Incorrect Feedback
1st	
Correct Feedback	
	Global Incorrect Feedback
The correct answer is: a.	

## Question 15b of 15 ( 2 Solving Logarithmic Equations 300294 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	c
Question:	Sometimes you'll need to simplify more complicated logarithmic

equations before using the strategy you learned. For example, to solve an equation of the form  $c + a \bullet \log_b x = d$ , you should first subtract both sides of the equation by the constant \_\_\_\_\_.

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: <i>c.</i>	

## Question 15c of 15 ( 2 Solving Logarithmic Equations 300295 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	a
Question:	Sometimes you'll need to simplify more complicated logarithmic equations before using the strategy you learned. For example, to solve an equation of the form $a \bullet \log_b x = d$ , you should first divide both sides of the equation by the coefficient

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
-	The correct answer is: <i>a</i> .	