MATHEMATICS 3200 · NEWFOUNDLAND AND LABRADOR

Mathematics 3200

Practice Test

Unit D: Exponential and Logarithmic Functions

25 Questions

Original practice test based on the Newfoundland and Labrador curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

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Question 1

$\log_2 32$ is

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Question 2

$\log_3 81$ is

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Question 3

$\log_2 256$ is

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Question 4

$\log_5 125$ is

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Question 5

$\log_{10}$ 10 is

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Question 6

$\log_{10}$ 100 is

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Question 7

$\log_{10}$ 1000 is

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Question 8

$2^x = 4$. The value of x is

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Question 9

$2^x = 8$. The value of x is

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Question 10

$2^x = 16$. The value of x is

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Question 11

An investment of 1000 dollars grows at 5 percent per year, compounded annually. After 3 years it is worth, in dollars, to two decimal places

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Question 12

An investment of 2000 dollars grows at 4 percent per year, compounded annually. After 2 years it is worth, in dollars, to two decimal places

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Question 13

An investment of 500 dollars grows at 6 percent per year, compounded annually. After 4 years it is worth, in dollars, to two decimal places

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Question 14

Simple interest on 1000 dollars at 5 percent per year for 2 years is, in dollars

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Question 15

Simple interest on 400 dollars at 10 percent per year for 3 years is, in dollars

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Question 16

log(6 × 2) is equal to

A) log 6 + log 2

B) log 6 × log 2

C) log 6 − log 2

D) 6 log 2

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Question 17

log(5 × 3) is equal to

A) log 5 × log 3

B) log 5 + log 3

C) log 5 − log 3

D) 5 log 3

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Question 18

$\log(a^2)$ is equal to

A) $2 \log a$

B) $a \log 2$

C) $\log a + 2$

D) $\frac{\log a}{2}$

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Question 19

$\log(a^3)$ is equal to

A) $a \log 3$

B) $3 \log a$

C) $\log a + 3$

D) $\frac{\log a}{3}$

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Question 20

$\log(a^4)$ is equal to

A) $a \log 4$

B) $\log a + 4$

C) $4 \log a$

D) $\frac{\log a}{4}$

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Question 21

A sample of 800 grams halves every period. After 2 periods, the mass remaining is, in grams

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Question 22

A sample of 640 grams halves every period. After 3 periods, the mass remaining is, in grams

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Question 23

The domain of $f(x) = \log(x - 5)$ is

A) $x > 5$

B) $x \geq 5$

C) $x < 5$

D) $x \neq 5$

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Question 24

The domain of $f(x) = \log(x - 12)$ is

A) $x \geq 12$

B) $x > 12$

C) $x < 12$

D) $x \neq 12$

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Question 25

The horizontal asymptote of $y = 2^x + 1$ is

A) $y = 1$

B) $y = 0$

C) $y = 2$

D) $x = 1$

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ANSWER KEY

1.	5	**10.**	4	**18.**	A
2.	4	**11.**	1157.63	**19.**	B
3.	8	**12.**	2163.2	**20.**	C
4.	3	**13.**	631.24	**21.**	200
5.	1	**14.**	100	**22.**	80
6.	2	**15.**	120	**23.**	A
7.	3	**16.**	A	**24.**	B
8.	2	**17.**	B	**25.**	A
9.	3				

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