Task card 1 Properties of Logarithms

Fill in the blank: $\log_5\left(\frac{y}{125}\right) = \log_5(y) - ___$

Task card 2 Properties of Logarithms

Evaluate: $\log_4(2) + \log_4(8)$

Task card 3 Properties of Logarithms

Evaluate: $\log_5(175) - \log_5(7)$

Task card 4 Properties of Logarithms

Fill in the blank: $\log_5(x^8) = ___ \cdot \log_5(x)$

Task card 5 Properties of Logarithms

Evaluate: 3log_2(4)

Task card 6 Properties of Logarithms

Evaluate: log(2) + log(50)

Task card 7 Properties of Logarithms

Evaluate: $\log_3(21) - \log_3(7)$

Task card 8 Properties of Logarithms

Fill in the blank: $\log_3(m^9) = ___ \cdot \log_3(m)$

Task card 9 Properties of Logarithms

Fill in the blank: $\log_5(m^9) = ___ \cdot \log_5(m)$

Task card 10 Properties of Logarithms

Evaluate: $\log_{12}(8) + \log_{12}(18)$

Task card 11 Properties of Logarithms

Evaluate: $\log_3(189) - \log_3(7)$

Task card 12 Properties of Logarithms

Fill in the blank: $\log_5(125x) = ___ + \log_5(x)$

Task card 13 Properties of Logarithms

Evaluate: $3\log_3(3)$

Task card 14 Properties of Logarithms

Evaluate: $\log(4) + \log(250)$

Task card 15 Properties of Logarithms

Evaluate: $\log_2(22) - \log_2(11)$

Task card 16 Properties of Logarithms

Fill in the blank: $\log_2(\sqrt{16}) = \log_2(x) - ___$

Task card 17 Properties of Logarithms

Fill in the blank: $\log_3(y^3) = ___ \cdot \log_3(y)$

Task card 18 Properties of Logarithms

Evaluate: $\log_{12}(2) + \log_{12}(6)$

Task card 19 Properties of Logarithms

Write as a single logarithm: $\log_2(x) + \log_2(11)$. (Write the number first, like $\log_2(3x)$.)

Task card 20 Properties of Logarithms

Evaluate: $\log_2(14) - \log_2(7)$

Task card 21 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(9) without a calculator.

Task card 22 Properties of Logarithms

Evaluate: 4log_3(9)

Task card 23 Properties of Logarithms

Write as a single logarithm: 2log_7(x) + $\log_7(3)$. (Write the number first, like $\log_2(3x^2)$.)

Task card 24 Properties of Logarithms

Evaluate: $\log_4(8) + \log_4(8)$

Properties of Logarithms Task Cards

Recording sheet · Grade 11 · Use the properties of logarithms.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Properties of Logarithms Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. 3	**2.** 2	**3.** 2
4. 8	**5.** 6	**6.** 2
7. 1	**8.** 9	**9.** 9
10. 2	**11.** 3	**12.** 3
13. 3	**14.** 3	**15.** 1
16. 4	**17.** 3	**18.** 1
19. $\log_2(11x)$	**20.** 1	**21.** 0.954
22. 8	**23.** $\log_7(3x^2)$	**24.** 3