Task card 1 Properties of Logarithms

Write as a single logarithm: 2log_3(x) + $\log_3(11)$. (Write the number first, like $\log_2(3x^2)$.)

Task card 2 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(27) without a calculator.

Task card 3 Properties of Logarithms

Evaluate: $\log_5(35) - \log_5(7)$

Task card 4 Properties of Logarithms

Write as a single logarithm: 3log_3(y) + $\log_3(7)$. (Write the number first, like $\log_2(3x^2)$.)

Task card 5 Properties of Logarithms

Evaluate: $\log_{12}(3) + \log_{12}(4)$

Task card 6 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(8) without a calculator.

Task card 7 Properties of Logarithms

Fill in the blank: $\log_5(25y) = ___ + \log_5(y)$

Task card 8 Properties of Logarithms

Write as a single logarithm: $\log_2(x) + \log_2(5)$. (Write the number first, like $\log_2(3x)$.)

Task card 9 Properties of Logarithms

Write as a single logarithm: 4log_5(x) - $\log_5(11)$

Task card 10 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(5) without a calculator.

Task card 11 Properties of Logarithms

Evaluate: $\log_3(39) - \log_3(13)$

Task card 12 Properties of Logarithms

Write as a single logarithm: 4log_2(y) + $\log_2(3)$. (Write the number first, like $\log_2(3x^2)$.)

Task card 13 Properties of Logarithms

Evaluate: log(5) + log(20)

Task card 14 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(12) without a calculator.

Task card 15 Properties of Logarithms

Write as a single logarithm: $\log_2(y) + \log_2(7)$. (Write the number first, like $\log_2(3x)$.)

Task card 16 Properties of Logarithms

Write as a single logarithm: 2log_5(y) - $\log_5(11)$

Task card 17 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(15) without a calculator.

Task card 18 Properties of Logarithms

Evaluate: $\log_2(24) - \log_2(3)$

Task card 19 Properties of Logarithms

Write as a single logarithm: 3log_7(x) - $\log_7(3)$

Task card 20 Properties of Logarithms

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

Task card 21 Properties of Logarithms

Fill in the blank: $\log_2(y^4) = ___ \cdot \log_2(y)$

Task card 22 Properties of Logarithms

Write as a single logarithm: 2log_3(y) - $\log_3(11)$

Task card 23 Properties of Logarithms

Write as a single logarithm: $\log_3(x) + \log_3(5)$. (Write the number first, like $\log_2(3x)$.)

Task card 24 Properties of Logarithms

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

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 · Hard

The answers online

1. $\log_3(11x^2)$	**2.** 1.431	**3.** 1
4. $\log_3(7y^3)$	**5.** 1	**6.** 0.903
7. 2	**8.** $\log_2(5x)$	**9.** $\log_5(x^4/11)$
10. 0.699	**11.** 1	**12.** $\log_2(3y^4)$
13. 2	**14.** 1.079	**15.** $\log_2(7y)$
16. $\log_5(y^2/11)$	**17.** 1.176	**18.** 3
19. $\log_7(x^3/3)$	**20.** 3	**21.** 4
22. $\log_3(y^2/11)$	**23.** $\log_3(5x)$	**24.** 1