Task card 1 Properties of Logarithms

Fill in the blank: $\log_2(32x) = ___ + \log_2(x)$

Task card 2 Properties of Logarithms

Evaluate: $\log_6(4) + \log_6(9)$

Task card 3 Properties of Logarithms

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

Task card 4 Properties of Logarithms

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

Task card 5 Properties of Logarithms

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

Task card 6 Properties of Logarithms

Evaluate: 2log_2(4)

Task card 7 Properties of Logarithms

Write as a single logarithm: 2log_2(y) - $\log_2(7)$

Task card 8 Properties of Logarithms

Evaluate: $\log_4(2) + \log_4(32)$

Task card 9 Properties of Logarithms

Write as a single logarithm: 2log_3(y) - $\log_3(7)$

Task card 10 Properties of Logarithms

Use log(2) ≈ 0.301 and log(3) ≈ 0.477 to find log(18) without a calculator.

Task card 11 Properties of Logarithms

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

Task card 12 Properties of Logarithms

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

Task card 13 Properties of Logarithms

Evaluate: $\log(2) + \log(5)$

Task card 14 Properties of Logarithms

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

Task card 15 Properties of Logarithms

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

Task card 16 Properties of Logarithms

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

Task card 17 Properties of Logarithms

Use $\log(2) \approx 0.301$ and $\log(3) \approx 0.477$ to find $\log(20)$ without a calculator.

Task card 18 Properties of Logarithms

Evaluate: $\log_3(90) - \log_3(10)$

Task card 19 Properties of Logarithms

Write as a single logarithm: $\log_5(x) + \log_5(3)$. (Write the number first, like $\log_2(3x)$.)

Task card 20 Properties of Logarithms

Use $\log(2) \approx 0.301$ and $\log(3) \approx 0.477$ to find $\log(16)$ without a calculator.

Task card 21 Properties of Logarithms

Fill in the blank: $\log_2(y^2) = ___ \cdot \log_2(y)$

Task card 22 Properties of Logarithms

Write as a single logarithm: 5log_2(x) - $\log_2(3)$

Task card 23 Properties of Logarithms

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

Task card 24 Properties of Logarithms

Evaluate: $\log_{12}(9) + \log_{12}(16)$

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 · Medium

The answers online

1. 5	**2.** 2	**3.** $\log_7(3y)$
4. 1	**5.** 1.079	**6.** 4
7. $\log_2(y^2/7)$	**8.** 3	**9.** $\log_3(y^2/7)$
10. 1.255	**11.** 1	**12.** $\log_3(11x)$
13. 1	**14.** 2	**15.** $\log_2(3y)$
16. $\log_2(3x)$	**17.** 1.301	**18.** 2
19. $\log_5(3x)$	**20.** 1.204	**21.** 2
22. $\log_2(x^5/3)$	**23.** 9	**24.** 2