

Investigation Properties of Logarithms

8-4

Name _____

Date _____ Hr _____

1. Complete the table. Round to the nearest thousandth.

x	1	2	3	4	5	6	7	8	9	10	15	20
log x												

2. Complete each pair of statements. What do you notice?

A. $\log 3 + \log 5 = \underline{\hspace{2cm}}$ and $\log (3 \cdot 5) = \underline{\hspace{2cm}}$

B. $\log 1 + \log 7 = \underline{\hspace{2cm}}$ and $\log (1 \cdot 7) = \underline{\hspace{2cm}}$

C. $\log 2 + \log 4 = \underline{\hspace{2cm}}$ and $\log (2 \cdot 4) = \underline{\hspace{2cm}}$

D. $\log 10 + \log 2 = \underline{\hspace{2cm}}$ and $\log (10 \cdot 2) = \underline{\hspace{2cm}}$

3. Complete the statement: $\log M + \log N = \underline{\hspace{4cm}}$

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