

Name:

Date:

Logarithms

Directions: Please fill in the missing values on the table below using your calculator.
Round to the fourth decimal place.

n	1	2	3	4	5	6	7	8	9
log(n)	0		0.4771					0.9031	
n	10	20	30	40	50	60	70	80	90
log(n)	1	1.3010				1.7782			
n	100	200	300	400	500	600	700	800	900
log(n)	2				2.6990				2.9542

1. What patterns do you notice going across each row?
2. What about the patterns produced going down a column?
3. How do the numbers in the table above relate to the second set of rulers from in class?

Directions: Use your rulers to answer the following prompts.

$$\log(2) + \log(3) =$$

$$\log(5) + \log(8) =$$

$$\log(8) + \log(10) =$$

1. What do you notice about these values? What would be a logarithm property describing this relationship?

$$\log(10) - \log(5) =$$

$$\log(200) - \log(10) =$$

$$\log(90) - \log(3) =$$

2. What do you notice about these values? What would be a logarithm property describing this relationship?