

Math Problem 1: Change from exponential to logarithm form, or vice versa. Solve for the variable.

	<u>Exponential Form</u>	<u>Logarithmic Form</u>	<u>Solution for Variable</u>
(a)	$10^y = 0.001$	_____	
(b)	$100^{\frac{1}{2}} = m$	_____	
(c)	_____	$x = \text{Log}_4 64$	
(d)	_____	$\text{Log}_8 n = -1$	
(e)	_____	$2 = \text{Log}_b 400$	

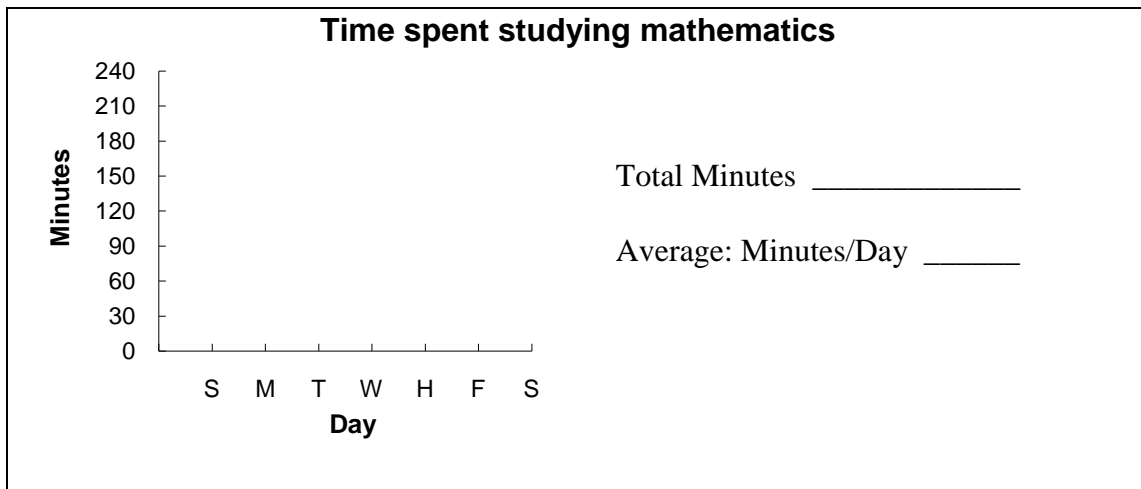
Math Problem 2: Marty has \$10,000 in a mutual fund account that has been decreasing in value by 2.5% each year.

(a) Write a mathematical model to represent this problem situation. *Clearly define your variables.*

(b) In how many years will Marty's account be worth only \$5,000? Solve this problem using algebra (hint you'll need logarithms) and also solve it using your graphing calculator. Show or briefly explain what you did in each case.

Journal Topic:

1. What math class do you plan to take after Math 80?
2. What is your major? (If you don't have one yet, what are some possibilities?)
3. What math classes are required for your major? (If you don't know find out.)



Comments/Observations on the Course and your Progress (optional):