8. [12 points] Below is a table of values for the function t(y) which gives the number of tweets per day, in millions, on the social media website Twitter, y years after January 1, 2007. For this problem assume t(y) is an increasing function.

	year y	0	1	2	3	4
	millions of tweets per day $t(y)$	0.005	0.3	2.5	35	50
a . [4 points]	Using the table, estimate the expression					

$$365\int_{1}^{4}t(y)dy$$

using a left-hand Riemann sum. Please write all of the terms in the sum for full credit.

b. [4 points] Give a practical interpretation of the expression $365 \int_{1}^{4} t(y) dy$.

c. [4 points] Suppose T(y) is the total number of tweets, in millions, y years after January 1, 2007. If T(3) = 9797, estimate the total number of tweets between January 1, 2007 and January 1, 2011. Indicate what method you use to obtain your estimate and be sure to show your work.