## Mathematics 122 Quiz #15

Name:\_\_\_\_

Let C(t) be the cost/day to heat a house, starting at t=0 on January 1, 1996. Assume that C(t) is given by

$$C(t) = \begin{cases} 2.5, & 0 \le t < 45 \\ 2.0, & 45 \le t \le 60. \end{cases}$$

1. What are the units on  $\int_0^{60} C(t) dt$ ?

Units are

2. What is the interpretation of  $\int_0^{60} C(t) dt$ ?

3. What is the average value of C(t) on the interval  $0 \le t \le 60$ ?

Average =