Biology 4605 / 72	20
Quiz #3b	

Name	
	24 September 2003

1. Construct both cumulative frequency distributions from the following frequency distribution of ages of mothers of students in the quant. course in 1998.

T = age in years. n = number of students. F(T = k) is the frequency with which the quantity T is equal to the fixed value k, where k is the midpoint of each class.

		1998			
Age	<u>k</u>	F(T=k)	$F(T \leq k)$	$F(T \le k)/n$	F(T=k)  in  2003
15-20	17.5	11			2
21-25	23.5	19			7
26-30	28.5	18			12
31-35	33.5	7			4
36-40	38.5	0			2
41-45	43.5	0			0

2. Identify two differences between the distribution in 1998 and 2003.

- 3. Identify whether the following are Type I or Type II errors by circling the correct type.
- a. A drug company fails to control for placebo effects and concludes
  that a new drug cures the common cold
  I II
- b. An agency mistakenly concludes that low level jet training has no environmental impact. I II
- c By mistake an aquaculture researcher adds the same food to treatment and control groups, then concludes that the food assigned to the treatment group increases growth.

I II