Biology 4605/7220 28 September 2015 NAME_____

1a. Complete the following table for ages of mothers of students in this course in 2009.

1b. Assuming a normal distribution of ages of mothers, the expected frequency, in 2009, is E(F[Age=x]) = 1.84 for the age group 16-20. Write a data equation for this age group.	x F(Age=x) 18 23 28 33 38 43	F(Age=x)/n	F(Age <u>≤</u> x) 2 12 28 42 46 46	F(Age <x) n<="" th=""></x)>
Data value Model value	+residu	al		[3]

2. For each of the following decisions, (a) state the "no effect" or null hypothesis;(b) state the decision made relative to this hypothesis; (c) identify whether the decision is at risk of Type I or Type II error.

The government of Alberta decides not to fund a study of the Zamboni surgical treatment for multiple sclerosis. (a) [1]

(b) [1] (c) [1]

An horticulturalist concludes that a new fertilizer increases the number of blossoms per plant. (a) [1]

(b)	[1]
(c)	[1]
(c)	[1]