1a. Complete the following table for age[6]	es of 1	nothers o	of students in	this cours	e in 2009.
[~]	x F	(Age=x)	F(Age=x)/n	F(Age≤x)	F(Age <x) n<="" td=""></x)>
	18	2	1 `	2	
1b. Assuming a normal distribution	23	10	10/46	12	
of ages of mothers, the expected	28	16		28	
frequency, in 2009, is	33	14		42	142/46
E(F[Age=x]) = 1.84 for the age	38	И		46	
group 16-20. Write a data equation	43	Ò		46	
for this age group.					
2 = 1-84	+	0.	16		[3]
Data value Model value		residu	al		

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) Zamboni treatment has no effect H. [1]

(b) Accept no effect hymth [1]

(c) At risk of Type II error

An horticulturalist concludes that a new fertilizer increases the number of blossoms per plant.

(a) New feetilizer has no effect H. [1]

(b) Reject the no effect hypothesis [1]

(c) Decision is at risk of Type I error [1]

Decision Null Hypothesis is:

True False

Reject type I

Accept V Type II