Biology 4	1605/7220
Quiz #3a	

Name 29 September 2004

Complete the 4 blanks in the following table. Expected frequencies are computed from the normal distribution.

Age of mothers of students taking Biol 4605 and 7220 in 1998

		Obs			Expected	Obs-Exp	Cumulative
Age	Age	Freq	Sum(Age)	Sum(Age*Age)	Freq		Frequency
Range	Х	F(Age=x)			55*Pr(Age=x)		F(Age <u><</u> x)
16-20	18	11	198	3564	8.04	2.96	11
21-25	23	19	437	10051	21.26	-2.26	30
26-30			504	14112	18.66		
31-35	33	7	231	7623	5.44	1.56	55
36-40	38	0	0	0	0.53	-0.53	55
41-45	43	0	0	0	0.02	-0.02	55
	Sum	55	1370	35350	53.95	1.05	
	mean(Age)		24.9091				
	var(Age)		22.6768			
	stdev(Age) 4.7620						

(2) Write a data equation for F(Age=33), for which the frequency is 7.

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- (3) The standard deviation is 4.76 years. How would you compute the variance from this standard deviation?
- (4) Mean(age(1997)) = 27.8 years Mean(age(1998)) = 24.9 years

Write a null / alternative hypothesis pair to test whether age of students in 1997 differs from 1998.