16. A magazine is testing two types of computers to see if model A is faster than model B for a certain task. A sample of 10 of computer A finds that the mean time for the task is 14.7 seconds with a standard deviation of 1.2 seconds. A sample of 12 of computer B finds that the mean time for the task is 15.3 seconds with a standard deviation of 1.4 seconds.

a) Write the null and alternate hypotheses.

b) Do a hypothesis test at the 5% level. Decide if you accept or reject the null hypothesis and explain what that means here. Show your work.

17. The US Census Bureau has the following breakdown for the countries of Asia:

Birth Rate (per 1000):	mean=21.9	sd=9.9	
Death Rate (per 1000):	mean=7.8	sd=3.5	r=0.7

a) Find the regression line for predicting the death rate of a country from the birth rate of the country.

b) Estimate the death rate of the US which has a birth rate of 14.1 (per 1000).

c) Do you think the estimate in (b) is good. Explain.

12. The table below gives the breakdown of a country's birth rate by its population in 2007: