**MLE's steps:**

The likelihood is: 化简为constant \*or+ f(parametors)

The log-likelihood is:

F.O.C:

S.O.C so as to check we get a maximum

(OR differentiating again to check we get a maximum)

**General wording:**

The formula for XXX is:

Consider blahblah:

But since:

So we get:

Finally, we find that/ This means that…

**Hypothesis test:**

We are testing:

H0 v.s. H1

Assuming that XXX are independent and identically distributed, then under H0, we have

(known distribution with test parameters and statistics)

XXX ~ N(0,1) approximately

The observed value of the test statistics is:

Blahblah

This is less than xxx, which is the upper 5% point of N(0, 1) distribution.

So we have insufficient evidence to reject the null hypothesis at the 5% level.

Sufficient evidence to reject the null hypothesis at the 5% level.

Therefore, it is reasonable to conclude that the XXX is blahblah.

(Using p-value to determine:

We have P(…)~=xxx, which is greater than 0.05.   
 Therefore, we have insufficient evidence to reject the null hypothesis at the 5% level)