B (n,p) independent (n,p) independent (n,p) (n

假没检验

0 Ho : 0=m. H1: 17 >/</ >

1) X~B(n,p) PO()

5 P(X>70) --- La reject Ho > 2 accept Ho

* as possible as dose to \$

hypothesis test

1. mill hypothesis: he assume to be correct | unless proved the

2. critical region: The range of values of test statistics

that would lead to rejecting H.

Critical value: The boundary of CR.

(X>8) = 0.4567 < 0.05 (d)

CR. X>7 (D)

CR. X>7 (D)

CR. X>7 (D)



■ In statistics, a population is the whole set of items that are of interest.

For example, the population could be the items manufactured by a factory or all the people in a town. Information can be obtained from a population. This is known as raw data.

- A census observes or measures every member of a population.
- A sample is a selection of observations taken from a subset of the population which is used to find out information about the population as a whole.

There are a number of advantages and disadvantages of both a census and a sample.

	Advantages	Disadvantages
Census	It should give a completely <u>accurate</u> result	Time-consuming and expensive
	guider&easier	 Cannot be used when the testing process destroys the item Hard to process a large quantity of data
Sample	Less time-consuming and expensive than	The data may not be as accurate
	a census	The sample may not be large enough
	Fewer people needed to respond	to give information about small sub-
	Less data to process than in a census	groups of the population

The size of a sample can affect the validity of any conclusions drawn.

- The size of the sample depends on the required accuracy and available resources.
- · Generally, the larger the sample, the more accurate it is, but you will need greater resources.
- If the population is very varied, you need a larger sample than if the population were uniform.
- Different samples can lead to different conclusions due to the natural variation in a population.
- Individual units of a population are known as sampling units.
- Often, sampling units of a population are individually named or numbered to form a list called a sampling frame.

Sampling unit 抽样能: 7样 a…
Sampling frame样框架: 1st of all.

Sampling distribution that the probability distribution of a statistic

Population: collection of all items

statistic: a function of the sample which contains no unknown quantities

在所有工人里, 近100 下人, 沟界车上时间 in 概算 Statistics
a list of all workers number of people that ride to work
Sampling units
a cook alist of all campling units in the population
population
a collection all the workers

a random sample: every possible sample has an equal chance of being selected sampling distribution: the probability distribution of the number of 35,4 - i) = int

When the population & sampling frame not the same not always possible to keep this list up to date