What distribution should be used for hypotheses tests for mean

(we assume that the sample observations are a simple random sample).

1) Use normal distribution if

standard deviation of the population is  known and

population is normally distributed

or

standard deviation of the population  known and

sample size greater than 30

2) Use t distribution if

standard deviation of the population is not  known and population  is normally distributed

or

standard deviation of the population is not  known and

sample size is greater than 30

3) Use a nonparametric method or bootstrapping if population is not normally distributed and sample size is less than or equal  30

What distribution should be used for hypotheses tests for proportion.

(we assume that the sample observations are a simple random sample).

Use normal distribution if np>5 and nq>5, where n is a sample size, p the assumed proportion (not the sample proportion) and q=1-p.