Given the following measures on the Statistics scores for a group of 25 second year's students:

The smallest 3 values	The first quartile	The median	The third quartile	The largest 3 values
30, 33, 37	40	45	60	72, 80, 98

- Draw the Box-Plot.
- 2) Find a measure of central tendency
- 3) Is the value "15" an outlier? Why?
- 4) Determine the direction of the skewness (without calculation).
- 5) Calculate the coefficient of skewness, and comment.
- 6) Is it a difficult exam? Why?

Some Exercises

- (1) What name is given to a table that lists all the values that a discrete random variable X can assume and their corresponding probbilities?
- (2) For the probability distribution of a discrete random variable, the probability of any single value of X is always
 - a. In the range 0 to 1
- b. 1.0
- c. less than zero
- (3) For the probability distribution of a discrete random variable, the sum of the probabilities is always
- (4) The parameters of the binomial probability distribution are and
- (5) The binomial distribution is skewed to the right if π 0. 5
- (6) The parameter/ parameters of the Poisson probability distribution is/ are
- (7) Find the mean and the standard deviation from the followin table

x	-4	0	1	2
P(X = x)	0.2	0.3	0.3	0.2

- (8) A factory has eight machines. The probability is 0.04 that any machine will break down at any time. Find the probability that at any given time:
 - a. All eight machines will be broken down
 - b. Exactly two machines will be broken down
 - c. None of the machines will be broken down
- (10) A high school boys' basketball team averages 1.2 technical fouls per game. Find the probability that in agiven game this team will commit:
- a. Exactly three technical fouls
- b. At least two technical fouls
- c. Find the mean and the standard deviation