<u>Statistics Worksheet – 1</u>

1. A
2. D
3. B
4. B
5. C
6. B
7. B
8. A
9. C

10 Normal distribution, also known as the Gaussian distribution, is a probability distribution that is symmetric about the mean, showing that data near the mean are more frequent in occurrence than data far from the mean. In graph form, normal distribution will appear as a bell curve.

11 Average amputation and common point amputation

13 Bad practice in general.

If just estimating means: mean imputation preserves the mean of the observed data

Leads to an underestimate of the standard deviation

Distorts relationships between variables by "pulling" estimates of the correlation toward zero

14 In statistics, linear regression is a linear approach for modelling the relationship between a scalar response and one or more explanatory variables (also known as dependent and independent variables).

15 The two main branches of statistics are descriptive statistics and inferential statistics. Both of these are employed in scientific analysis of data and both are equally important for the student of statistics.