**Describing Data 1 Pictures of Data**

1. Which of the following is not true?
   1. Computer software makes it easy to draw diagrams.
   2. Diagrams always give an accurate view of data.
   3. A good diagram summarises the main features of data.
   4. Diagrams need careful interpretation.
2. As a general rule, how many classes should there be in a histogram?
   1. More than 10
   2. Between 5 and 20
   3. Less than 4
   4. More than 20
3. Is a histogram the same as a frequency diagram?
   1. yes, always
   2. sometimes, depending on the data
   3. sometimes, depending on the diagram
   4. no, never
4. If the number 453.67 is recorded on a stem and leaf diagram with stem unit of 100 and leaf unit of 10, what digit would appear as the leaf value?
   1. 5
   2. 3
   3. 54
   4. 4
5. In what way does a stem and leaf diagram provide more information than a histogram?
   1. It contains more classes
   2. It tells you whether the distribution is skewed
   3. It tells you where, within each class, the data lies
   4. It shows the proportion of data in each class
6. Which of the following is most likely to represent categorical data?
   1. The colour of cars at a particular road junction
   2. The price of a litre of petrol
   3. The age of university students
   4. Marks awarded in a test
7. Which of the following would not be used to display categorical data?
   1. A histogram
   2. A bar chart
   3. A list of frequencies
   4. A pie chart
8. How might you display numerical data that occurs in pairs?
   1. In a histogram
   2. In a time series plot
   3. In a scatter plot
   4. In a pie chart
9. How might you display categorical data which occurs in pairs?
   1. In a pie chart
   2. In a scatter plot
   3. In a bar chart
   4. In a contingency table
10. Which of the following is most likely to be displayed in a time series plot?
    1. Numerical data
    2. Numerical data which occur at regular time intervals
    3. Categorical data
    4. Data which occurs in pairs

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| Question | Answer |
| 1 | B |
| 2 | B |
| 3 | C |
| 4 | A |
| 5 | B |
| 6 | A |
| 7 | A |
| 8 | C |
| 9 | D |
| 10 | B |