Hand your completed quiz in before the due date. Do not forget to write down your name and student ID number. Marks will be awarded for this quiz based on the clarity of your answers. The marker will pay close attention to the logic of your answers. Please show all your working.

Q.1 Result from Sell.com poll on “What is your top cold-weather beauty concern?” were reported in the December 2008 issue of Self magazine: dry skin-57%, chapped lips-25%, dull hair-10%, rough feet-8%.

(a) Construct a pie chart showing the top cold-weather beauty concerns.
(b) Construct a bar graph showing the top cold-weather beauty concerns.
(c) Do parts (a) and (b) using Excel.

Q.2 Shown below are the heights (in inches) of the basketball players who were the first round picks by the National Basketball Association professional teams for 2009.

<table>
<thead>
<tr>
<th>82</th>
<th>86</th>
<th>76</th>
<th>77</th>
<th>75</th>
<th>72</th>
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</tbody>
</table>

(a) Construct a dotplot of the heights of these players.
(b) Use the dotplot to find the shortest and the tallest players. How many of them?
(c) What is the most common height and how many players share that height?
(d) Compute the mean of this data.
(e) What is the median of this data?
(f) What is the mode of this data?
(g) Compute the sum and the mean of this data using Excel. (Use Excel functions. You do not need to submit the output.)

Q3. You have collected some proficiency scores for the administrative assistants in your department. The proficiency scale ranges from 0 to 1000 as follows:

| 99 | 150 | 300 | 780 | 350 | 500 | 510 | 360 | 200 | 175 | 196 | 450 |

(a) Construct a histogram using class boundaries (bins) 0 – 100, 100 – 200, …, 600 – 700. Note that the class 0-100 includes 0 but not 100. Likewise the class 100-200 includes 100 but not 200, and so on.
(b) Do the same using Excel. (Use Histogram inside the Data Analysis.)