M & M RANDOM SAMPLE

CONTENT STANDARDS:
- Students will be able to develop inferences, predictions, and arguments that are based on data.
- Students will be able to communicate results of data analysis

TASK:
Select a random sample from the table of data about M&M’s candy on the data sheet provided. For each sample, record the bag number, the number of blue candies, and the total number of M&M’s in the bag. Select as many samples as you think are needed to give a reasonable sample size.

CRITERIA:
- Explain how you made sure that your samples were chosen randomly.
- Explain how you decided on the size of your sample and why it is reasonable.
- Use your sample to estimate the percent of blue M&M’s in a typical bag of plain M&M’s candies. Explain how you found your answer.

RUBRIC:

<table>
<thead>
<tr>
<th>Category</th>
<th>Excellent and Correct Response</th>
<th>Partially Correct Response</th>
<th>Incorrect Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>You explained how your samples were chosen randomly.</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Your sample size is reasonable.</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>You explained your answer.</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL_______/9