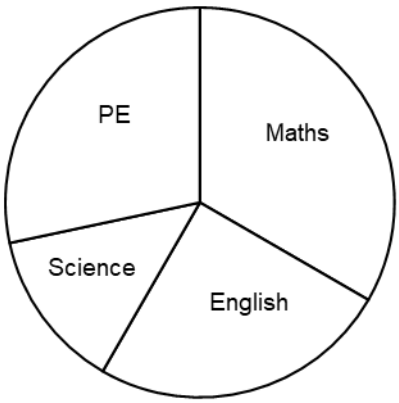
<table>
<tr><td></td><td colspan="2">Pie Charts Mark Scheme</td></tr>
<tr><td>1(a)</td><td><table><tr><th>Frequency</th><th>Angle</th></tr><tr><td>20</td><td>120</td></tr><tr><td>15</td><td>90</td></tr><tr><td>8</td><td>48</td></tr><tr><td>17</td><td>102</td></tr><tr><td>60</td><td>360</td></tr></table></td><td>[1] Any two values correct
[1] Any four values correct
[1] All six values correct</td></tr>
<tr><td>1(b)</td><td> 
</td><td>[3] Correct pie chart</td></tr>
<tr><td>2(a)</td><td>Chocolate</td><td>[1] Correct answer</td></tr>
<tr><td>2(b)</td><td>Crisps and sweets</td><td>[1] Correct answer</td></tr>
<tr><td>2(c)</td><td>No because the total number of people asked is not known</td><td>[1] No with valid reason</td></tr>
<tr><td>3(a)</td><td>10</td><td>[1] 10</td></tr>
<tr><td></td><td>because one quarter of 40 is 10</td><td>[1] valid explanation</td></tr>
<tr><td>3(b)</td><td>$\frac{6}{40}$ $(=\frac{3}{20})$</td><td>[1] For correct numerator</td></tr>
<tr><td></td><td>$\frac{6}{40}$ $(=\frac{3}{20})$</td><td>[1] For correct denominator</td></tr>
<tr><td>4(a)</td><td><table><tr><th>Frequency</th><th>Angle</th></tr><tr><td>15</td><td>45</td></tr><tr><td>24</td><td>72</td></tr><tr><td>20</td><td>60</td></tr><tr><td>21</td><td>63</td></tr><tr><td>40</td><td>120</td></tr></table></td><td>[1] Any two values correct
[1] Any three values correct
[1] All five values correct</td></tr>
<tr><td>4(b)</td><td>Correct pie chart</td><td>[3] Correct pie chart</td></tr>
</table>

5	7 students	[1]
6	40-59 males $\approx 108°$, $\frac{108°}{360} = 0.3$ $0.3 \times 250 = 75\ men$	[1] Number of men in the 40-59 age group
	40-59 females $\approx 72°$ $\frac{72°}{360} = 0.2$	[1] Same number of women in age group
	$\frac{75}{0.2} = 375\ female\ members\ in\ total$	[1] Total number of women

END