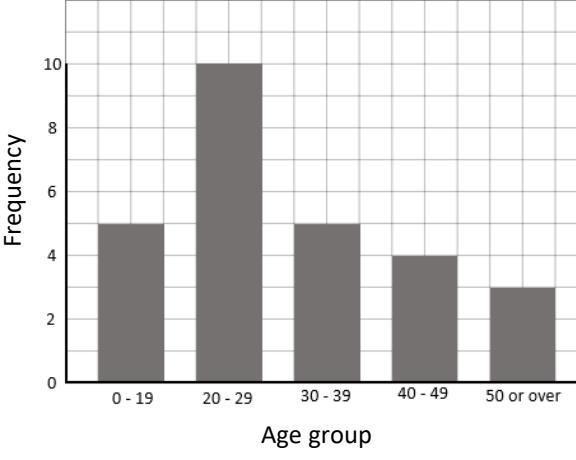


	<b>Functional Skills Maths Level 1 – Practice Paper Mark Scheme</b>																			
<b>Section A: Non-Calculator</b>																				
<b>1</b>	361 – 13	[1] Correct order of operations																		
	348	[1]																		
<b>2</b>	41.36	[1]																		
<b>3</b>	0.0231	[1]																		
<b>4</b>	<table border="1"> <thead> <tr> <th>Age</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>0-19</td> <td>    </td> <td>5</td> </tr> <tr> <td>20-29</td> <td>     </td> <td>10</td> </tr> <tr> <td>30-39</td> <td>    </td> <td>5</td> </tr> <tr> <td>40-49</td> <td>   </td> <td>4</td> </tr> <tr> <td>50 or over</td> <td>  </td> <td>3</td> </tr> </tbody> </table>	Age	Tally	Frequency	0-19		5	20-29		10	30-39		5	40-49		4	50 or over		3	<p>[1] Tally column correctly completed</p> <p>[1] Frequency column correctly completed</p>
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	<p>A graph to show the different age groups of people that attend Jeffrey's gym</p>  <table border="1"> <caption>Data for bar chart</caption> <thead> <tr> <th>Age group</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>0-19</td> <td>5</td> </tr> <tr> <td>20-29</td> <td>10</td> </tr> <tr> <td>30-39</td> <td>5</td> </tr> <tr> <td>40-49</td> <td>4</td> </tr> <tr> <td>50 or over</td> <td>3</td> </tr> </tbody> </table>	Age group	Frequency	0-19	5	20-29	10	30-39	5	40-49	4	50 or over	3	<p>[2] Bars correctly plotted (allow error carried forward from table)</p> <p>[1] Axes and title correctly labelled (allow alternatives)</p>						
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Turn over ►

<b>5</b>	$6 \times 5 = 30 \text{ m}$ , $10 \times 5 = 50 \text{ m}$	[1] Method to find dimensions of swimming pool
	$30 \times 50$	[1] Method to find area of swimming pool
	$1500 \text{ m}^2$	[1]

<b>6</b>	$1 \text{ part} = 120 \div 8 = 15$	[1] Correctly finding 1 part of ratio
	Silver: 45, Gold: 75	[1]

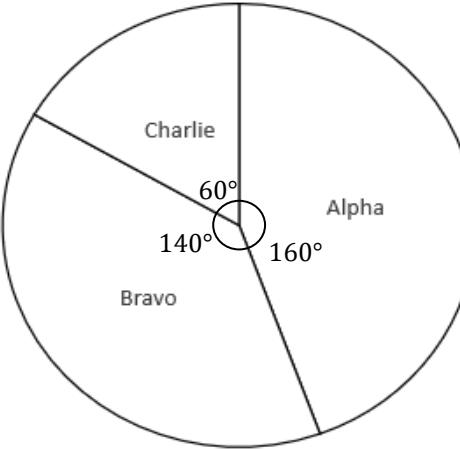
<b>7</b>	$\frac{7}{16}$	[1]
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Turn over ►

<b>Section B: Calculator</b>		
<b>8</b>	$56 + 56 + 92 + 92 = 296 \text{ m} = 0.296 \text{ km}$	[1] Method to find total perimeter
	$\frac{5}{0.296} = 16.89$	[1] Method to find number of laps
	17	[1]
<b>9</b>	Week 1: $33 - 29 = 4$ Week 2: $34 - 27 = 7$ Week 3: $33 - 28 = 5$	[1]
	Week 2	[1]
<b>10</b>	£52	[1]
<b>11</b>	16	[1]
<b>12</b>	$17 \times 2 = 34 \text{ m}$	[1] Finding total length of Christmas lights needed
	$34 \times 6 + 50 = 254$	[1] Correctly using function machine
	$254 \div 80 = 3.175 \rightarrow 4 \text{ boxes}$	[1] Process to find number of boxes
	£63.96	[1]
<b>13</b>	$48 \div 6 = 8$	[1] Correctly finds scale
	$8 \times 225 = 1800 \text{ g}$	[1] Correctly finding amount of butter needed
	$1\frac{3}{5} \text{ kg} = 1600 \text{ g}$	[1] Correctly converting units (allow converting butter to kg)
	200 g	[1] Allow 0.2 kg

Turn over ►

<b>14</b>	$3.2 \times 5.05 = 16.16 \text{ m}^2$	[1] Method to find area of kitchen
	$2 \times "16.16" = 32.32 \text{ m}^2$	[1] Method to find area that varnish covers
	$"32.32" \div 5.6 = 5.77 \text{ litres needed}$	[1] Method to find number of litres needed
	$"5.77" \div 2 = 2.89 \text{ tins} \rightarrow 3 \text{ tins needed}$	[1] Correctly finding number of tins needed
	£44.85	[1]
<b>15</b>	$(56 \div 7) \times 4 = 32$	[1] Method to find number of seniors
	$231 + 105 + 56 + 12 = 404$	[1] Correctly calculated total ticket sales
	$\frac{32}{404} \times 100$	[1] Method to find percentage of seniors
	7.92%	[1]
<b>16</b>	$75 + 70 + 68 + 80 + 78 + 76 = 447 \text{ kg}$	[1] Correctly calculating total weight of friends
	$447 \div 6 = 74.5 \text{ kg}$	[1] Correctly calculated mean
	Yes, he is correct	[1]
<b>17</b>	B and C	[2]
<b>18</b>	$\frac{1}{4} = 25\%$	[1]
	Ahmed	[1]

19	$40 + 35 + 15 = 90$  $A: \frac{40}{90} \times 360 = 160^\circ, B: 140^\circ, C: 60^\circ$	[1] Method to find total number of cadets  [1] Method to find angle for each section
		[1] Pie chart correctly drawn
20	$37 + 26 = 63$ miles  Yes, she does have enough	[1] Correctly calculated total distance travelled  [1]
21	$0.9 \times 2.2 \times 1.9$  $= 3.762 \text{ m}^3$  $"3.762" \div 0.026 = 144.7 \text{ minutes}$  145 minutes	[1] Method to find volume of hot tub  [1]  [1] Method to find time of filling hot tub  [1] Time correctly rounded to nearest minute
22	Café: Monday: 5 hours Tuesday: 5.5 hours Friday: 6.25 hours 16.75 hours worked in total  Cleaner: Thursday: 5.25 hours Sunday: 3 hours 8.25 hours worked in total	[1] Method to find total hours worked for each job
	Cleaner wage: $9.10 \times 1.2 = £10.92$	[1] Method to find cleaner wage
	Café earnings: $16.75 \times 9.10 = £152.425 = £152.43$	[1] Method to find Café earnings
	Cleaner earnings: $8.25 \times 10.92 + 20 = £110.09$	[1] Method to find cleaner earnings
	£262.52	[1]