

**Functional Skills Maths Level 1 – Practice Paper Mark Scheme**

**Section A: Non-Calculator**

**1**

$361 - 13$

[1] Correct order of operations

348

[1]

**2**

41.36

[1]

**3**

0.0231

[1]

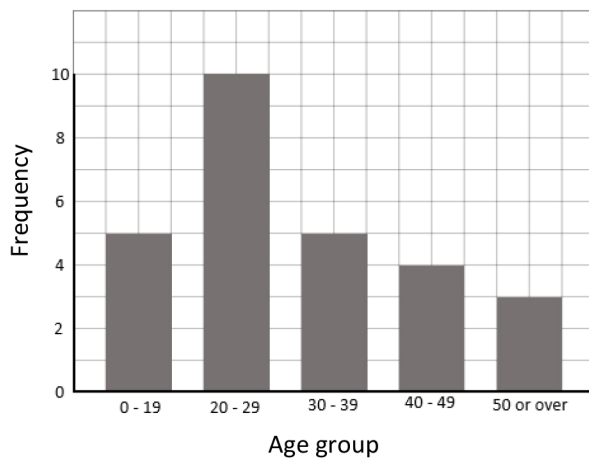
**4**

Age	Tally	Frequency
0-19		5
20-29		10
30-39		5
40-49		4
50 or over		3

[1]  
Tally column correctly completed

[1]  
Frequency column correctly completed

A graph to show the different age groups of people that attend Jeffrey's gym



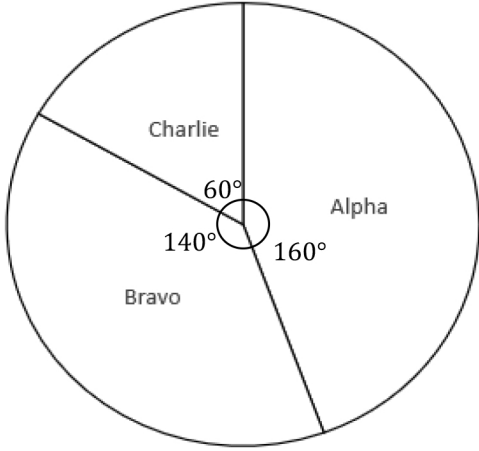
[2] Bars correctly plotted (allow error carried forward from table)

[1] Axes and title correctly labelled (allow alternatives)

<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]

<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

<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	$40 + 35 + 15 = 90$	[1] Method to find total number of cadets
	$A: \frac{40}{90} \times 360 = 160^\circ, B: 140^\circ, C: 60^\circ$	[1] Method to find angle for each section
	 <p>A pie chart with three sectors. The largest sector is labeled 'Alpha' and has an angle of 160°. The second largest is 'Bravo' with 140°. The smallest is 'Charlie' with 60°. The angles are labeled at the center of the circle.</p>	[1] Pie chart correctly drawn
20	$37 + 26 = 63$ miles	[1] Correctly calculated total distance travelled
	Yes, she does have enough	[1]
21	$0.9 \times 2.2 \times 1.9$	[1] Method to find volume of hot tub
	$= 3.762 \text{ m}^3$	[1]
	$"3.762" \div 0.026 = 144.7$ minutes	[1] Method to find time of filling hot tub
	145 minutes	[1] Time correctly rounded to nearest minute
22	<p>Café:  Monday: 5 hours  Tuesday: 5.5 hours  Friday: 6.25 hours  16.75 hours worked in total</p> <p>Cleaner:  Thursday: 5.25 hours  Sunday: 3 hours  8.25 hours worked in total</p>	[1] Method to find total hours worked for each job
	Cleaner wage: $9.10 \times 1.2 = \text{£}10.92$	[1] Method to find cleaner wage
	Café earnings: $16.75 \times 9.10 = \text{£}152.425 = \text{£}152.43$	[1] Method to find Café earnings
	Cleaner earnings: $8.25 \times 10.92 + 20 = \text{£}110.09$	[1] Method to find cleaner earnings
	$\text{£}262.52$	[1]