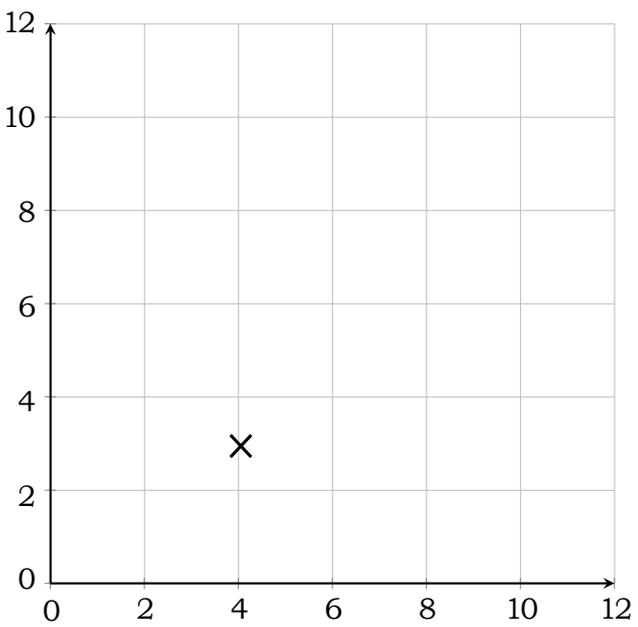


Functional Skills Maths Level 2 – Practice Paper Mark Scheme		
Section A: Non-Calculator		
1	3.02, 3.2, 3.27, 3.702, 3.72	[1]
2	$1\frac{3}{5} = \frac{8}{5} = \frac{32}{20}, 2\frac{1}{4} = \frac{9}{4} = \frac{45}{20}$	[1] Method to convert both fractions to a form with a common denominator
	$\frac{77}{20}$	[1] Allow equivalent (i.e. $3\frac{17}{20}$ )
3	2 km	[1] Condone missing units
4	9.947	[1]
5	29 → 30, 5.1 → 5	[1] Process to convert given values to estimated values
	$30 \times 5^2 = 30 \times 25$	[1] Method to use estimated values in equation
	750	[1]
6	$\begin{array}{r} 0722.5 \\ 6 \overline{) 431315.30} \end{array}$	[1]
7	$2.5 \times 1.5 = 3.75, 3.5 \times 0.5 = 1.75$	[1] Method to find areas of two sections of the shape Allow alternative sections, i.e. $5 \times 0.5 = 2.5, 1.5 \times 2 = 3$
	$3.75 + 1.75$	[1] Method to add two separate sections
	5.5	[1]
8	$7 \times 3 = 21$	[1] Method to find number of hours taken for one person
	$21 \div 4$	[1] Method to divide total number of hours by number of people
	5.25 hours	[1] Condone missing units

Section B: Calculator		
9	507 723	[1]
10	$\frac{1920}{23040}$	[1] Method to simplify fraction
	$\frac{1}{12}$	[1]
11		[1]
12	YTSA: $6000 \times 1.0425 = \text{£}6255$ or SSA: $6000 \times 1.025 = \text{£}6150$	[1] Method to find interest after one year
	SSA: $6000 \times 1.025 \times 1.025 = \text{£}6303.75$	[1] Method to find compound interest
	"6303.75" – "6255"	[1] Allow method of adding 50 to "6255" to compare to "6303.75"
	£48.75	[1]
	No, he is not correct	[1] Must be supported by £48.75

<b>13</b>	$2x = 180 - 78$	[1] Using angles in a triangle rule																
	$x = 51^\circ$	[1]																
<b>14</b>	$1.73 \times 7 = 12.11$	[1] Method to find their total height																
	$1.74 \times 8 = 13.92$	[1] Method to find total height of all 8																
	1.81 m	[1] Method to find difference in total heights																
<b>15</b>	$30 + (15 \times 7) = \text{€}135$	[1]																
	$0.6 \times 135 = \text{€}81$	[1] Method to find cost of car hire																
	$\text{€}1 \approx \text{€}1.20$	[1] Correctly finds conversion rate																
	$81 \div 1.20 = \text{€}67.50$	[1] Converts euros to pounds																
	£2.50	[1]																
<b>16</b>	$180 \div 0.8$	[1]																
	€225	[1]																
<b>17</b>	<table border="1"> <thead> <tr> <th></th> <th>Year 9</th> <th>Year 10</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td><b>Boys</b></td> <td>62</td> <td>97</td> <td>159</td> </tr> <tr> <td><b>Girls</b></td> <td>112</td> <td>84</td> <td>196</td> </tr> <tr> <td><b>Total</b></td> <td>174</td> <td>181</td> <td>355</td> </tr> </tbody> </table>		Year 9	Year 10	Total	<b>Boys</b>	62	97	159	<b>Girls</b>	112	84	196	<b>Total</b>	174	181	355	[1] For 84 <b>and</b> 62 [1] For 181 <b>and</b> 159 [1] For 355
	Year 9	Year 10	Total															
<b>Boys</b>	62	97	159															
<b>Girls</b>	112	84	196															
<b>Total</b>	174	181	355															
	$\frac{159}{355}$	[1]																
<b>18</b>	$1 \text{ part} = 510 \div 3 = 170 \text{ g}$ $5 \times 170 = 850 \text{ g}$	[1] Method to find amount of fudge																
	$(850 \times 0.9) \div 100 = 7.65$	[1]																
	7	[1]																

<b>19</b>	Median, 2018: $\frac{29+30}{2} = 29.5$ kg	[2]
	$29.5 \times 2.20 = 64.9$ lbs	[1] Method to convert to lbs
	$\frac{68 - 64.9}{64.9} \times 100$	[1] Correct percentage change calculation
	4.78% increase	[1]
<b>20</b>		
	$5 \times 3.14 \times 2^2$	[1] Method to find volume of cylinder
	62.8 cm <sup>3</sup>	[1]
	$350 \div 62.8$	[1] Method to divide mass by volume
	5.57 g/cm <sup>3</sup>	[1]
<b>21</b>		
	$12 + 10 + 122 = 144$ mins	[1] Method to find total time spent travelling
	$144 \div 60 = 2.4$ hours	[1] Convert time to hours
	$197 \div 2.4$	[1] Divides distance by time
	82.08 mph	[1]
<b>22</b>		
	Offer 1: $(1.80 \times 0.9) \div 2 = \text{£}0.81/\text{litre}$	[1]
	Offer 2: $(2.20 \times 0.5) \div (0.330 \times 4) = \text{£}0.83/\text{litre}$	[1]
	Offer 3: $(0.6 \times 0.75) \div 0.5 = \text{£}0.90/\text{litre}$	[1]
	Offer 1 is the best value for money	[1]