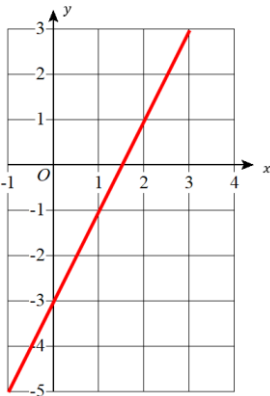
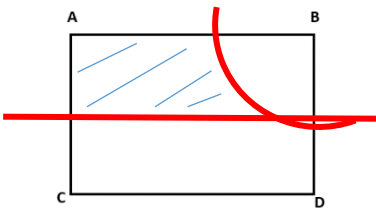



**Year 8 Summer Assessment NON\_CALC Mark Scheme**

Question	Answer	Mark	Notes
1	102	B1	cao
2	325	M1 A1	For a correct method shown with no more than one numerical error. cao
3	48.26	M1 A1	For a correct method shown with no more than one numerical error. cao
4	21568	M1 A1	For a correct method shown with no more than one numerical error. cao
5 (a)	C and D	B1	cao
5 (b)	A and E	B1	cao
6 (a)	68000	B1	cao
6 (b)	560	B1	cao
7	8a - 3b	B2 B1	cao for either 8a or -3b seen

8 (a)	<table><tr><td><math>x</math></td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td><math>y</math></td><td>-5</td><td>-3</td><td>-1</td><td>1</td><td>3</td></tr></table>	$x$	-1	0	1	2	3	$y$	-5	-3	-1	1	3	B2	For all $y$ values correct
$x$	-1	0	1	2	3										
$y$	-5	-3	-1	1	3										
8 (b)		B1	For 3 or 4 correct $y$ values												
		B2	cao												
		B1	For at least 3 of 'their' points plotted correctly.												
9	6,000,000	B1	cao												
10 (a)	65	B1	cao												
10 (b)	$\frac{27}{250}$	B2	cao												
		B1	For $\frac{108}{1000}$ or equivalent seen												
11	$2x + 26$	B2	cao												
		B1	For either $6x + 18$ seen or $-4x + 8$ seen or an answer in the form $2x + a$ where $a \neq 26$ or an answer in the form $bx + 26$ where $b \neq 2$												
12	8	M1	For correct equation set up as $\frac{12 \times h}{2} = 48$ or equivalent, or intention seen to multiply 48 by 2.												
		A1	cao												
13	$4 \times (2 + 3) = 20$	B1	cao												
	$5 + (6 \div 2)^2 = 14$	B1	cao												

14 (a)	9	B1	cao
14 (b)	125	B1	cao
15	3 : 4	B1	cao
16 (a)	$\frac{1}{6}$	B1	oe
16 (b)	$\frac{5}{6}$	B1	oe
17 (a)	224	M1	For 10% = 64 or 5% = 32 seen or $35 \div 100 \times 640$
		A1	cao
17 (b)	22.50	M1	For method to work out 25% of 30 (=7.50)
		A1	cao
18	Andy with correct working shown	M1	For converting $\frac{24}{40}$ in to a percentage (=60%) or for method of finding 62% of 40 (=24.8)
		A1	Andy written with correct figures shown to compare 60% and 62% or 24 and 24.8
19	990	M1	For $450 \div 5$ (= 90)
		A1	cao
20	120	M1	For method to find perimeter $9 + 3 + 9 + 3$ (= 24)
		M1	(Indep) for converting any value from cm to m [ ] x 500 or [ ] x 5 4,500 or 1,500 or 45 or 15 implies 2 <sup>nd</sup> M1
		A1	cao
21	200	M1	For $\frac{5 \times 8}{2}$ (= 20)
		A1	cao

22		<p>B1 For perpendicular bisector of AC</p> <p>B1 For 3 cm arc from B.</p> <p>B1 For correct section shaded.</p>
23	<p>4/5, 0.805, 0.816, 82%</p> <p></p>	<p>B2 cao (accept correctly converted values)</p> <p>B1 For at least two correct conversions to a comparable form. Fractions must have the same denominator.</p>

0.8	0.805	0.816	0.82
80%	80.5%	81.6%	82%

### Extension Questions

1	36	<p>M1 For finding length AM or MB e.g.  <math>24 \div (5 + 3) \times 5</math> or 15  or  <math>24 \div (5 + 3) \times 3</math> or 9</p> <p>M1 Fully correct method to find the area e.g.  <math>(24 \div 3) \times "9" \div 2</math></p> <p>A1 Cao</p>
2		<p>B2 For a fully correct reason i.e.  <math>4 \times 5 - 3 = 17</math> or  It goes through (5, 17) or  The 18 should be 17 or  <math>21 \div 4 = 5.25</math> or  5 should be 5.25</p> <p>B1 For a partial reason i.e.  <math>4 \times 5 - 3</math> or  <math>18 = 4x - 3</math></p>

3	(a) $5r + 3m$	B2	Oe
		B1	For either $5r$ or $3m$
	(b) 17	M1	For equating both equations e.g. $3r + 2m = 10$ and $r + m = 3$ , or $3r + 2m = 10$ and $2r + 2m = 6$ , or $3r + 2m = 10$ and $3r + 3m = 9$
		A1	For either $r = 4$ or $m = -1$
		A1ft	ft using their answer to part (a)