<b>1380</b> _1	lF				
Que	estion	Working	Answer	Mark	Notes
1	(a)		1284	1	B1 cao
	(b)		Four thousand and sixty seven	1	B1 for four thousand (no hundreds) and sixty seven
	(c)		Twenty (20)	1	B1 For twenty or 20 or 2 tens
	(d)		1500	1	B1 cao
2	(a)	960 - 23 + 16	953	2	M1 960 - 23 + 16 oe A1 cao
	(b)	Non – lesson time = $60 \text{ min}$ Total time = $3.5 + 3.5 = 7.0$ Lesson Time = "7" – "1"	6 hours	3	M1 for attempting to find the length of the total day by $3:30 - 8:30$ or counting on from $8:30$ to $3:30$ or sight of 7 (hours) or for an attempt to find the total length of non-lesson, $40 + 20 (= 60)$ M1 (dep) for a correct complete method to find the total length of lesson time,eg "7" (hours) – "1" (hour) A1 cao [Note: 7 seen on the answer line with no working gets NO marks]
3	(a)		12	1	B1 cao
	(b)	15-8	7	1	B1 cao
	(c)		Bristol	1	B1 cao

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Que	estion	Working	Answer	Mark	Notes			
4	(a)		24	1	B1 cao			
	(b)		Add 3	1	B1 add 3 or +3 oe			
	(c)		7, 15	1	B1 cao (ignore anything past 15)			
5	(a)		Leeds	1	B1 for Leeds (accept –12)			
	(b)		4	1	B1 accept -4			
	(c)		7	1	B1 cao			
	(d)		3 am	1	B1 3 am oe			
6	(i)		1.5 – 2.1	3	B1 1.5 – 2.1 m oe (5ft to 6ft 6 inches) Correct units must be quoted			
	(ii)		6 – 10.5 m		M1 evidence of use of man's height to estimate bus length A1 ft on 4 to 5 times "(i)" <b>OR</b> B2 for an answer in the range 6 – 10.5 m oe (20 ft to 32.5 ft) Correct units must be quoted but not necessarily consistent with (i)			
7	(a)		6	1	B1 cao			
	(b)		40	1	B1 cao			

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Qu	estion	Working	Answer	Mark	Notes		
8	(a)	3.45 + 1.8 = 5.25 10 - 5.25 Or 10 - 3.45 = 6.55 6.55 - 1.8	4.75	3	M1 $3.45 + 1.8 (= 5.25)$ M1 $10 - 5.25$ A1 cao [SC: B2 for an answer of 5.47 (B1 for 4.53 seen) if M0 scored] OR M1 for $10 - 3.45 (= 6.55)$ M1 for "6.55" - 1.8 A1 cao [SC: B2 for an answer of 5.47 if M0 scored] OR M1 for $10 - 1.8$ (or 8.2) M1 for "8.2" - 3.45 A1 cao [SC: B2 for an answer of 5.47 if M0 scored]		
	(b)	2000 ÷ 300	6	2	M1 for 2 litres $\div$ 300 mls (= 6.66 or $6\frac{2}{3}$ )oe A1 cao [SC: B1 for 1 litre = 1000 ml (or 2000 ml seen) if M0 scored]		
9	(a)		60°	1	B1 cao		
	(b)	360 - 230 - 60 = 70 $180 - 70 - 70$	40°	3	M1 for $360 - 230 - 60$ ' (= 70) M1 (indep) for $180 - 70$ ' - 70' The 70' may be just shown in the diagram A1 cao		

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Que	estion	Working	Answer	Mark	Notes			
10	(a)		A and E	1	B1 cao			
	(b)		D and F	1	B1 cao			
	(c)		B and C	1	B1 cao			
11	(a)		Likely	1	B1 cao			
	(b)		Evens	1	B1 cao			
	(c)		Impossible	1	B1 cao			
12		$20 \times 5 = 1005 \times 19 = 95 \text{ or } 4.9 \times 20 = 98\text{ or } 4.8 \times 20 = 96$	£95 or £98 or £96 or £100	2	M1 for $5 \times 19$ or $4.9(0) \times 20$ or $4.8(0) \times 20$ or $5 \times 20$ A1 for £95 or £98 or £96 or £100 Do not accept attempts at accurate working			
13	(a)		Rectangle 10 by 2 or 5 by 4 Or 8 by 2.5	2	M1 for any rectangle A1 for a rectangle drawn of area 20 cm <sup>2</sup>			
	(b)		A correct isosceles triangle [eg, base = 3cm, height = 8cm or base = 4cm, height = 6cm or base = 6cm, height = 4cm or base = 8cm, height = 3cm]	2	M1 for any isosceles triangle drawn or a triangle drawn with an area of 12 cm <sup>2</sup> A1 for correct sides (e.g. base 6, height 4; base 8, height 3) [Note: If fractional lengths used, this must be explicitly stated on an accurate diagram. Eg $12 = \frac{1}{2} \times 5 \times 4.8$ , the 4.8 must be stated]			

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Que	estion	Working	Answer	Mark	Notes		
14	(i)	$4 \times 5 + 2 \times \frac{1}{2} = 20 + 1$	21	3	M1 for $4 \times 5 + 2 \times \frac{1}{2} (= 20 + 1)$ these could be quoted separately A1 cao		
	(ii)	$10-5^2 = 10-25$	-15		B1 cao		
15	(a)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	436	2	M1 for evidence of a correct, method of decomposition or equal addition or use of complement to 200 or 6 seen in the units column of their answer A1 cao		
	(b)	$4 \times 7 = 28 \times 5$ or $4 \times 35 (7 \times 5)$ or $4 \times 5 = 20 \times 7$	140	2	M1 for $`4 \times 7' \times 5$ or $4 \times `7 \times 5'$ or $`4 \times 5' \times 7$ A1 cao		

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Que	estion	Working	Answer	Mark	Notes
16	(a)		× marked in the centre of the middle square	1	B1 cao Allow a cross drawn inside the square (not on a side of the square)
	(b)		Completed shape	1	B1 cao

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Que	stion	Working	Answer	Mark	Notes		
17	(a) (b)	40 + 28 + 22	28 90	1 2	B1 cao M1 for adding 2 or 3 distances, with at least 2 correct distances A1 cao [SC: B1 for an answer of 130 if M0 scored]		
	(c)	Distance = $25 + 45 + 30 = 100$ Travel time = $100 \div 50 = 2$ OR $25 \div 50 + 45 \div 50 + 30 \div 50$ = $30 + 54 + 36$ mins = $2$	14:00	4	M1 for $25 + 45 + 30$ (=100) or for adding 2 or 3 distances with at least 2 correct M1 for '100' $\div$ 50 M1 (dep on at least one M1) for 9 + 3 + 'total time' A1 for 2 pm or 14 00 oe <b>OR</b> M1 for $25 \div 50$ (=30 mins) or $45 \div 50$ (= 54 mins) or $30 \div 50$ (= 36 mins) M1 for ' $25 \div 50'$ + ' $45 \div 50'$ + ' $30 \div 50'$ or for adding 2 or 3 times of which at least 2 are from using correct distances M1 (dep on at least one M1) for 9 + 3 + 'total time' A1 for 2 pm or 14 00 oe		
18	(a)	Gemma = $x + 4$ Jo = $x - 2$ x + 4 + x - 2 + x = 23	x + 4 + x - 2 + x = 23	2	M1 for $x + 4$ and $x - 2$ seen (ignore £ signs) A1 for $x + 4 + x - 2 + x = 23$ oe (accept $x = 7$ but do <b>not</b> accept £ signs in final equation [SC: B1 for $x = £7$ , if M0 scored] The equation can be accepted if seen only in part (b)		
	(b)	3x + 2 = 23 $3x = 21$	7	2	M1 for isolating terms in x and number terms on each side of an equation, ft from $ax + b = 23$ ( $a \neq 0$ or 1) in (a) A1 for 7 or ft a correct solution of their equation [SC: B1 for an answer of 5 or 11]		

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Que	estion	Working	Answer	Mark	Notes		
19	(a)	$\frac{4}{20}$	$\frac{1}{5}$	2	M1 for $\frac{4}{20}$ oe A1 cao [SC: B1 for $\frac{16}{20}$ oe, if M0 scored]		
	(b)	$\frac{\frac{6}{20} \times 100}{\text{Or}}$ $\frac{\frac{6}{20} = \frac{5 \times 6}{5 \times 20}}$	30	2	M1 $\frac{6}{20} \times 100$ oe A1 cao OR M1 $\frac{6}{20} = \frac{5 \times 6}{5 \times 20}$ A1 cao		
	(c)	10 - 1.50 = 8.50 8.50 ÷2 = 4.25 OR $10 \div 2 + 1.50 \div 2$ = 5 + 0.75	5.75	2	M1 10 - 1.50 = 8.50 and "8.50" $\div$ 2 (= 4.25) or 10 + 1.50 = 11.50 and "11.50" $\div$ 2 or 10 $\div$ 2and 1.5(0) $\div$ 2 or 2x + 1.5(0) = 10 oe A1 cao		
20	(a)	$4^2 + 6^2 = 2 \times 5^2 + 2 = 52$	$4^2 + 6^2$ 2 × 5 <sup>2</sup> + 2	1	B1 cao		
	(b)	$10^2 + 12^2 = 2 \times 11^2 + 2 = 244$	$10^2 + 12^2$   $2 \times 11^2 + 2$   244	2	M1 for 2 of $10^2 + 12^2$ , $2 \times 11^2 + 2$ , 244 A1 for a fully correct line 10		
	(c)	$2 \times 1000^{2} + 2 \\ 2 \times 1\ 000\ 000 + 2$	2 000 002 or 2 million and 2	2	M1 $2 \times 1000^2 + 2$ A1 for 2000 002 or 2 million and 2		

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Que	estion	Working Answer		Mark	Notes
21	(a)	5.2 – 1.3	3.9	2	M1 for sight of 5.2 and 1.3 or 52 – 13 (= 39) A1 cao
	(b)		3.1	2	M1 for sight of the 11 <sup>th</sup> value or 31 A1 cao
	(c)		$\frac{3}{21}$	2	M1 for $\frac{3}{q}$ $(q > 3)$ or $\frac{n}{21}$ $(0 < n < 21)$ or for sight of 3 and 21 A1 $\frac{3}{21}$ oe ignore any subsequent cancelling errors
22	(a)	2(x - y) - 3 (x - 2y) = 2x - 2y - 3x + 6y	-x+4y	2	M1 $2x - 2y - 3x \pm 6y$ or $2x - 2y$ or $3x - 6y$ or $-3x + 6y$ A1 cao [SC B1 for $-x - 8y$ or $x + 4y$ if MO scored]
	(b)	3y + 12 = y + 8 3y - y = 8 - 12 2y = -4	-2	2	M1 for a correct attempt to collect either the numbers or the terms in $y$ on one side of the equation A1 cao
	(c)		2(2+3x)	1	B1 for $2(2 + 3x)$ or $(2 + 3x)^2$ or $2 \times (2 + 3x)$ or $(2 + 3x) \times 2$

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Quest	tion Working	Answer	Mark	Notes				
23	Ext angle = $\frac{360}{6}$ Int angle = 180 - 60 120 + 90 = 210 360 - 210 = 150 OR 180 × 4 = 720 720 ÷ 6 = 120 120 + 90 = 210 360 - 210 = 150 OR Ext angle = $\frac{360}{6}$ Ext angle = 90 90 + 60	150	4	M1 (Ext angle =) $\frac{360}{6}$ M1 (Int angle =) 180 - '60' M1 (dep on at least M1) for 360 - ('120' + 90) A1 cao [SC: B2 for an answer of 210] OR M1 for 180 × 4 (= 720) M1 for '720' ÷ 6 (=120) M1 (dep on at least M1) for 360 - ('120' + 90) A1 cao OR M1 (Ext angle =) $\frac{360}{6}$ (= 60) M1 (Ext angle =) $\frac{360}{4}$ or 180 - 90 (= 90) or 90 seen as an exterior angle on the diagram M1 (dep on at least M1) for 90 + '60' A1 cao				

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Qu	estion	Working	Answer	Mark	Notes		
24	(a)		New points plotted at (15, 22) and (55, 15)	1	B1 for points plotted with $\pm \frac{1}{2}$ square tolerence		
	(b)		If the temperature increases so the time taken decreases	1	B1 If the temperature increases so the time taken decreases (accept negative correlation)		
	(c)		18 - 20	2	M1 draw LOBF between (20,18) and (20, 22) to (70,3) and (70,8) A1 18 – 20 [B2 for an answer in the range 18 – 20 if M0 scored]		
	(d)		Reason [For example, LOBF would give negative time or you should not use the LOBF beyond the given data.]	1	B1 reason e.g LOBF would give negative time, you should not use the LOBF beyond your data		
25	(a)		Vertices at (-4, 2), (-4, 0), (0, 0) and (-2, 2)	2	M1 any translation A1 cao		
	(b)		Vertices at (4, 4), (2, 4) and (2, 8)	2	M1 sight of the line $y = x$ or a correct reflection is in y = -x A1 cao		