

Paper 5521_01

No	Working	Answer	Mark	Notes
1 (a)		Line 6cm long	1	B1 for line 6 cm \pm 0.2cm
(b)		Point 2cm from A	1	B1 for point 2 cm \pm 0.2cm from A
2	33 - 19 = 14 14 + 15	29	2	M1 for 33 - 19 or 33 + 15 or 19 - 15 or 14 seen or 48 seen or 4 seen A1 cao
3 (a)(i)		0.25	2	B1 0.25
(ii)		$\frac{1}{4}$		B1 cao
(b)(i)		2	2	B1 cao
(ii)		6		B1 cao
4 (a)		12	1	B1 cao
(b)	8 - 5	3	2	M1 for 5 seen or 4 - 1 A1 cao
(c)		5 circles $3\frac{1}{2}$ circles	2	B1 cao B1 cao
5 (a)		23	1	B1 cao
(b)		31	1	B1 cao
6 (a)		16 cm ²	2	B1 for 16 B1 (indep) for cm ²
(b)		18	1	B1 cao
(c)		10	2	B2 for 10 (B1 for 9 or 11 or 5 \times 2 or evidence of length \times width height eg 2 \times 3 \times 1, 2 \times 3 \times 2)

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7	(a)	Five thousand and sixty seven	1	B1 cao (accept 5) condone omission of "and"
	(b)	1400	1	B1 cao
8	(a)	4539	1	B1 cao
	(b)	Chicago	1	B1 cao
	(c)	Boston	1	B1 cao
9		A	1	B1 cao
10	(a)	150	1	B1 for 150 ± 3
	(b)	70	1	B1 for 70 ± 3 or $220 - (a)$ ft
11	(a)	correct reflection	1	B1 cao
	(b)	correct reflection	1	B1 cao
12	(a)(i)	(2, 6)	2	B1 cao
	(ii)	(0, 4)		B1 cao
	(b)(i)	P correct	2	B1 cao
	(ii)	Q correct		B1 cao
13	(i)	10	3	B1 cao
	(ii)	0		B1 cao
	(iii)	2		B1 cao
14	(a)	-2	1	B1 cao
	(b)	12	2	M1 for $7 - -5$ or $-5 - 7$ A1 cao (accept -12)
	(c)	1	1	B1 cao (accept +1)

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15	$9 \div 100 \times 400$	(a) 55(%)	1	B1 cao
(b) 0.09		1	B1 cao	
(c) 36		2	M1 for $9 \div 100 \times 400$ oe eg 4×9 A1 cao	
16		(i) S extreme left	3	B1 cao
(ii) H middle		B1		
(iii) M extreme right		B1		
17		(a) 3g	1	B1 cao
(b) p^2		1	B1 cao	
18	Angle $A = 90^\circ \pm 2^\circ$ Angle $B = 120^\circ \pm 2^\circ$ $AD = 5\text{cm} \pm 0.2\text{ cm}$ $BC = 4\text{cm} \pm 0.2\text{ cm}$	Construction	4	B4 for fully correct quadrilateral (B3 for 3 measurements correct B2 for 2 measurements correct B1 for 1 measurement correct)
19		(a) D or A	1	B1
(b) 130		2	M1 for $180 - 50$ or $50 + 130 = 180$ or $360 - 180 - 50$ A1 cao	
20	$27 \times 55 = 1350 + 135$	1485	2	M1 for a fully correct method, (condone one arithmetic error) A1 cao
	$1200 \div 4$	300	2	M1 for $1200 \div 4$ A1 cao

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21 (a)	16 55 – 17 00 is 5min 17 00 – 19 45 is 2 45 120 + 45 + 5	170	3	M1 for an attempt to partition, eg sight of 5, 2 45, 10, –10, 50, 165 or 60,60,45 A1 for 60+60+50, 2h50(min), 5 and 2h45(min) or 3h and -10 2-50, 2.50, 2 50 (not 250 or 2.5) A1 cao
(b)(i)		80		B1 cao
(ii)	$800 \div 8 = 100$ $3 \times 100 = 300$	300	4	M1 for $800 \div 8$ or 800×3 or 100 seen or 2400 seen A1 cao B1 ft
(iii)	$800 - ("80" + "300")$	420		
(c)	$\frac{320}{800} \times 100$	40	2	M1 for $\frac{320}{800}$ (oe) A1 cao
22 (a)	$2 \times -5 + 3 \times 5$	7	2	M1 for 2×-4 or $-4 - 4$ or 3×5 or $5+5+5$ or -8 or 15 A1 cao
(b)	$40 = 2m + 30$	5	2	M1 for $40 = 2m + 30$ or $40 = 2 \times 5 + 30$ or $40 = 10 + 30$ or $2m = 10$ A1 cao
23	$10 \times 8 = 80$ $4 \times 2 = 8$ $80 - 3 \times 8$	56	3	M1 for 10×8 or 80 M1 for 4×2 or 8 or 8×3 or 24; (NB 8 not the rectangle width) A1 cao

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24		SL	PL	O	T	See working	3	B3 for all correct (B2 for 4 or 5 correct B1 for 2 or 3 correct)	
	F	21	13	13	47				
	M	19	5	14	38				
	T	40	18	27	85				
25	(a)						87.38	1	B1 cao
	(b)						340	1	B1 cao
26	(a)	$2x + 2x + 10$					$4x + 10$	2	B2 for $4x + 10$ (B1 for $2x + 2x + 10$ oe)
	(b)	$4x + 10 = 34$					6	2	M1 for " $4x + 10$ " = 34 or $34 - 10 \div 4$ A1 cao
27	(a)						Overlay	3	B3 fully correct (B2 correct orientation in correct quadrant) (B1 any rotation about O; or correct orientation in incorrect quadrant).
	(b)						Translation	1	B1 cao
28	(a)						No time period Labels too vague	2	B1 No time period B1 Labels too vague
	(b)						Not enough people Teachers not representative	2	B1 Not enough people B1 Teachers not representative
29	(a)	$4x = 16$					4	2	M1 for $4x = 19 - 3$ oe or $19 - 3 \div 4$ A1 cao
	(b)	$4y - 2y = 8 - 1$					3.5	2	M1 for $4y - 2y = 8 - 1$ A1 cao
30		$\frac{10}{15} + \frac{3}{15}$					$\frac{13}{15}$ oe	2	M1 for suitable common denominator (multiple of 15), at least one of two fractions correct. A1 for $\frac{13}{15}$ oe

