Paper 5523/03					
No		Working	Answer	Mark	Notes
1	(a)	16+32	48	2	B2 cao (B1 for 16 or 32 seen)
	(b)		4	1	B1 cao
2	(a)		10 **12** **15** 37 **9** 17 **7** **33** 19 **29** 22 70	3	B3 all correct (B2 for 4 or 5 entries correct) (B1 for 2 or 3 entries correct)
	(b)		$\frac{19}{70}$	2	B2 for $\frac{19}{70}$, accept 0.27 (….) (B1 for $\frac{k}{70}$ with $0<k<70$ or for the correct probability incorrectly expressed, eg '19 out of 70')
3	(a)		6	1	B1 cao
	(b)		20	1	B1 cao
	(c)		24	1	B1 cao
4		$(40 \div 10) \times (60 \div 20) \times (100 \div 10)$	120	3	M1 attempt one division (eg 40 ÷ 10) , may be implied by marks or number on one edge of diagram or by two of 4,3 and 10 seen M1 (dep) for ("40 ÷ 10") × ("60 ÷ 20") × ("100 ÷ 10") A1 cao OR M1 for $10 \times 20 \times 10$ or $40 \times 60 \times 100$ M1 (dep) for "240000" ÷ "2000" A1 cao

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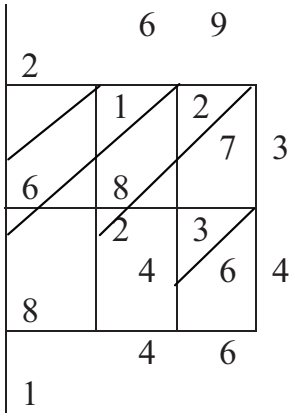
No		Working	Answer	Mark	Notes
5	(a)	1076 807x 9146  200 60 9 6000 1800 270 30 800 240 36 4 6000+1800 +270+800+240+36=9146	91.46	3	M1 for a complete method with relative place value correct, condone 1 multiplication error, addition not necessary A1 for 9146 A1 (dep on M1) for correct conversion of their total into £s OR M1 for a completed grid with not more then 1 multiplication error, addition not necessary A1 for 9146 A1 (dep on M1) for correct conversion of their total into £s OR M1 for sight of a complete partitioning method, condone 1 multiplication error, final addition not necessary A1 for 9146 A1 (dep on M1) for correct conversion of their total into £s
	(b)	2.5 × 1000 or 2500	5	3	B1 for 2.5 × 1000 or 2500 M1 for weight ÷ 500 A1 cao
6	(a)		(0)76	1	B1 for (0)76° (± 2°)
	(b)			2	B1 for a pt marked on a bearing of 155° (± 2°) from *B* or a line on a bearing of 155° ± 2° B1 for a point 5 cm (± 2 mm) from *B* or a line of length 5 cm (± 2 mm) from *B*

Paper 5523/03				
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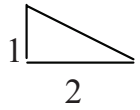
7		900 18 720 135	3	B3 all correct (B2 for 2 or 3 correct) (B1 for 1 correct).
8	$2 \times 3 = 6$	e.g. $2 \times 3 = 6$	2	B2 for a correct example (B1 for correctly multiplying any two prime numbers together or for $2 \times$ prime number not evaluated)
9			2	B2 for fully correct with 5 or more additional kites (B1 for a tessellation of 4 kites, 2 of which must be inverted, ignore remainder of diagram)
10 (a)		31	1	B1 for 31, accept 23,27, 31
(b)		$4n - 1$		B2 for $4n - 1$ oe (B1 for $4n + k$, k any integer)
11 (a)	$r + 2r+5 + 2r +4r-3$	$9r + 2$	2	M1 for intent to add the 4 terms, can be implied by sight of $9r$ A1 cao
(b)	$9r + 2 = 65$	7	2	M1 ft for "$9r + 2$" = 65 or for correct inverse operations A1 cao NB: algebra seen in (b) can attract marks in (a) if (a) left blank
12 (a)		negative	1	B1 cao
(b)		line of best fit	1	B1 straight line passing between ((4, 15) and (4, 20) and between (1, 40) and (1, 45)
(c)(i)		~22	2	B1 ft from single line segment with negative gradient ± 1 full (2mm) square
(ii)		~2.8		B1 ft from single line segment with negative gradient ± 1 full (2mm) square

Paper 5523/03					
No		Working	Answer	Mark	Notes
13		$12 \times 10 \div 2 = 60$ $5 \times 3 = 15$ $60 - 15 = 45$	45	3	M1 for $12 \times 10 \div 2$ or 60 seen M1 for 5×3 or 15 seen A1 cao SC: B2 for answer of 105
14	(a)	eg 10% + 5% + 2.5% = £2 + £1 + £0.50 £20 + £3.50	23.50	3	M1 for £2 , £1 and £0.50 or £3.50 seen or $\frac{17.5}{100} \times 20$ oe M1 (dep) for "£3.50" + £20 A1 for 23.5 (0)
	(b)	$75 \div (3+1+1) = 15$ $15 \times 3 = 45$	45	3	M1 for $75 \div (3+1+1)$ M1(dep) for "15" $\times 3$ A1 cao
	(c)	0.8×200	160	2	M1 for 0.8×200 A1 for 160, accept 160 out of 200 SC: B1 for $\frac{160}{200}$ or 160 in 200
15			386 – 420	3	M1 for 2 of 20, 4, 0.2 A1 for $\frac{80}{0.2}$ or $\frac{84}{0.2}$ or 100×4 or 105×4 or 20×20 or 21×20 A1 for answer in range 386 – 420
16	(a)	2.3×20	46	2	M1 for 2.3×20 A1 cao
	(b)	$480 \div 400$	1.2	2	M1 for $480 \div 400$ A1 for 1.2 or equivalent reduced fraction
17	(a)		20	1	B1 cao
	(b)		$x(x + 4)$	1	B1 cao
	(c)(i)		m^7	2	B1 cao
	(ii)		t^4		B1 cao
	(d)	$x^2 + 5x + 3x + 15$	$x^2 + 8x + 15$	2	M1 for 3 of 4 terms $x^2 + 5x + 3x + 15$, signs not needed A1 for $x^2 + 8x + 15$

Paper 5523/03				
No	**Working**	**Answer**	**Mark**	**Notes**
18		Area Length None of these	3	B1 for Area only B1 for Length only B1 for None of these only
19 (a)		reflection line $y = x$	2	B1 for reflection B1 for line $y = x$ (if B0 then B1 for line $y=x$ drawn on diagram)
(b)	Triangle with vertices at (-1, 3), (-3, 3) and (-3,4)		2	M1 for correct orientation or for a rotation of 90° clockwise about (-1,1) A1 cao 
20 (a)		-3,-2,-1,0,1	2	B2 cao (-1 each error or omission)
(b)	$3x < -6$	$x < -2$	2	M1 for subtracting $2x$ from both sides, condone sign error in 6 and use of =,>, ≤, ≥ A1 for $x< -2$, accept $x< -\frac{6}{3}$