# Mark Scheme

Q1.

Paper_5MB Question	Working	Answer	Mark	Notes
(a)	Working	Point plotted	1	B1 for point plotted at (6,35)
(b)		E. C.	1	B1 for description of dynamic relationship or negative correlation
(c)			1	B1 for single straight line of best fit which could be used to take readings
(d)		21 - 26	1	B1 for answer in the range 21 - 26 or ft from single straight line segment (if previous B0)

# Q2.

Question	Working	Answer	Mark	Notes
(a)		The greater the hand = length the greater the foot length	1	B1 for the greater the hand = length the greater the foot length oe (accept positive correlation)
(b)		24 – 25	2	M1 for a single straight line segment with positive gradient that could be used as a line of best fit or an indication on the diagram from 18.5 on the x-axis  A1 for answer in range 24 – 25

### Q3.

Working	Answer	Mark	Notes
0558 24579 258 46 25	Ordered stem and leaf diagram	3	M1 for an unordered stem and leaf diagram with no errors or omissions OR an ordered stem and leaf diagram condoning two errors or omissions A1 for a correctly ordered stem and leaf diagram B1 for an appropriate key

Paper_5M	Paper_5MB1H_01									
Question	Working	Ö.	Answer	Mark	Notes					
		12	359	3	B2 for a fully correct ordered					
		13	033578	3	diagram					
		14	7789	5	(B1 for correct unordered diagram or					
		15	01	- I	ordered with at most two errors)					
			8.3		B1 for correct key eg 12   3 means 123 (cm)					

# Q5.

5MB1H_01 November 2015									
Question	Working	Answer	Mark	Notes					
(a)		0.2	2	M1 for 1 – (0.15 + 0.41 + 0.24) A1 cao					
(b)		12	2	M1 for 50 × 0.24 oe A1 cao					

# Q6.

	W	orkin	g		Answer	Mark	Notes
	В	(	3	Tot	29	4	M1 for a complete correct method to find the total number
F	10	3	5	45			of girls eg 120 – 30 (=90) M1 for complete correct metho
Н	12	2	6	38			to find the number of girls who
Т	8	2	9	37			play football or hockey eg 26 + 35 (=61) M1 for '90' – '61' A1 for identifying 29 as the answer OR M1 for a complete correct method to find the total number playing tennis M1 for a complete correct method to find the number of boys playing tennis M1 for 'total for tennis'-'boys playing tennis'
Tot	30	9	0	120			
	F	Н	Т	Tot			
В	10	12	8	30			
G	35	26	29	90			
Tot	45	38	37	120			
							A1 for identifying 29 as the answer

Question	Working	Answer	Mark	Notes
(a)		Reasons	2	1st aspect: no time frame 2nd aspect: overlapping boxes 3rd aspect: not exhaustive ie no <1, no "other", no >20 B2 for two aspects (B1 for one aspect)
(b)		Question and responses	2	1st aspect: question including time frame (or question and time frame in response boxes) 2nd aspect: at least 3 non overlapping response boxes, with discrete values or a range; need not be inclusive of all OR a set of at least 3 boxes which are exhaustive (but which may over lap) B2 for two different aspects (B1 for one aspect)

# Q8.

Question	Working	Answer	Mark	Notes
(a)		Overlapping response boxes Leading/biased question Age too personal Missing units	2	B2 for any two of: overlapping response boxes, too personal to ask person's age, a leading or biased question, no units  (B1 – just one of the above).
(b)	73	How many pieces of fruit do you eat each day? 0 to2, 3 to 4, over 4	2	B1 for a sensible question including a time period B1 for at least 3 response boxes. Any pairs of response boxes must not overlap
	536 + 384 + 48 + 73 ×100	7	-	M1 for $\frac{73}{536+384+48+73} \times 100$ Or $100 \div \left(\frac{536+384+48+73}{73}\right)$ Or 7.01 A1 for 7

Question	Working	Answer	Mark	Notes
	B C S B 15 G 28 20 66 36 120  B G 28 20 66 S 5 5 66 S 66 S 66 S 66	51	4	M1 for a two-way table or Venn diagram with bowling, cinema, skating, boys and girls labelled or list of at least two combinations clearly labelled. M1 for attempt to find the value of an unknown entry in the table oe eg 66 - 28 - 20, 120 - 66, 36 - 20 A1 for 16 or 18 or 54 or 23 or 33 A1 cao  (Note: 36 + 15 = 51 scores no marks)

Q10.

Question		v	Vorkir	ng		Answer	Mark	Notes
(i)	S N S To t	Y 4 11 11 11 11 11 11 11 11 11 11 11 11 1	Y 5 21 9 child 1 = 39 n swir 14 35 1 child	Y 6 18 30 Y 6 18 12 30	Iren in	20 35	4	M1 for including 4 of the 6 pieces of information given in a clearly labeled two-way table A1 for 20 or 20 out of 96 or 20/96  OR  M1 for a correct method that leads to the number of children in year 4 that can swim eg 96 – 37 (= 59) children can swim  18 + 21 = (39) children in Y5 or Y6 can swim '59' – '39'  A1 for 20 or 20 out of 96 or 20/96  M1 for one correct calculation leading to a 'new', piece of information in a clearly labeled two-way table  A1 for 35 or 35 out of 96 or 35/96  OR  M1 for a correct method that leads to the total number of children in year 5 eg '20' + 11 (= 31) children in Y4  30 + '31' (=61) children in Y4 or Y6  96 – '61' children in Y5  A1 for 35 or 35 out of 96 or 35/96  SC If M1 not earned then award B1 if

Q11.

Working	g Answ	/er Ma	rk	Notes
342 ÷ 88 = 3. 570 ÷ 195 = 2.923 1500 ÷ 399 = 3.759 OR 88 ÷ 342 = 0. 195 ÷ 570 = 0.342 399 ÷ 1500 = 0.266	corre calcula 257	ect	570 ÷ 19 3.759) OR one of 195 ÷ 57 0.266) OR any of to a com M1 for cal compara figures for the above C1 for collaboration of the second of	of 88 ÷ 342 (= 0.257), 70 (= 0.342), 399 ÷ 1500 (= other calculation that could lead parative figure alculations that could lead to tive or 2 bottles alculations that could lead to tive or 3 bottles, e.g. all three from the lists

# Q12.

Question	Working	Answer	Mark	Notes
*	179 ÷ 70 = 2.5(571) 275 ÷ 100 = 2.7(5) 399 ÷150 = 2.6(66)	70 ml tube with reason	4	Using pence per m/ M1 for a correct method of finding the cost per millilitre (or cost/10 m/ etc) for one of the sizes M1 for a correct method of finding the cost per millilitre (or cost/10 m/ etc. must be consistent) for each of the sizes A1 for 2.5(571) (70 m/) and 2.7(5) (100 m/) and 2.6(66) (150 m/) or equivalent depending upon units used. These values can be rounded or truncated as long as they remain different C1 (dep on M1) for selecting the tube with the best value for money based upon a comparison of their 3 values.  OR
	70 ÷ 179 = 0.39(11) 100 ÷ 275 = 0.36(36) 150 ÷399 = 0.37(59)			Using ml per 1p M1 for a correct method of finding the volume per pence (or £) for one of the sizes M1 for a correct method of finding the volume per pence (or £) for each of the sizes, with consistent units A1 for 0.39(11) (70 ml) and 0.36(36) (100 ml) and 0.37(59) (150 ml) or equivalent depending upon units used. These values can be rounded or truncated as long as they remain different C1 (dep on M1) for selecting the tube with the best value for money based upon a comparison of their 3 values.

# Q13.

5MB3H/01 June 2015 Operation Working Answer Monks Notes						
Question	Working	Answer	Mark	Notes		
		28	3	M1 for 240 × 1.2 (=288)		
				M1 for "288" ÷ 10 (=28.8)		
				A1 cao		
				OR		
				M1 for 10 ÷ 1.2 (=8.33)		
				M1 240 ÷ "8.33" (=28.8)		
				A1 cao		

# Q14.

Question	Working	Answer	Mark	Notes
*		Medium	.4	M1 for 52 ÷ 23 (= 2.26) or 170 ÷ 72 (= 2.36) or 960 ÷ 416 (= 2.30) or 23 ÷ 52 (= 0.44) or 72 ÷ 170 (= 0.42) or 416 ÷ 960 (= 0.43) M1 for 52 ÷ 23 (= 2.26) and 170 ÷ 72 (= 2.36) and 960 ÷ 416 (= 2.3) OR 23 ÷ 52 (= 0.44) and 72 ÷ 170 (= 0.42) and 416 ÷ 960 (= 0.43) A1 for 2.26 and 2.36 and 2.3 OR 0.44 and 0.42 and 0.43 C1 (dep on M1) for conclusion ft from three comparable figures [could use different figures relating to the three boxes]

Q15.

Working	Answer	Mark	Notes
	600, 150, 75, 375	3	M2 a complete correct method seen to calculate the required ingredients (M1 for a method to find a scale factor or the weight of one scone or dividing ALL by the same number or multiplying by 30) A1 cao SC B2 for three out of four ingredients correct

### Q16.

Working	Answer	Mark	Notes
	13	2	M1 for 7.8(0) ÷ 6 × 10 or 7.8(0) ÷ 6 or 7.8(0) × 10 or <sup>10</sup> / <sub>6</sub> oe or <sup>6</sup> / <sub>10</sub> oe
			A1 cao

### Q17.

PAPER: 5N	MB1H_01			
Question	Working	Answer	Mark	Notes
(a)		120	2	M1 for $\frac{2}{3} \times 180$ oe A1 cao
(b)		75	2	M1 for 1000 ÷ 400 × 30 or 30 + 30 + 15 oe A1 cao
				OR M1 for 3 × 25 : 40 × 25 oe or 75 : 1000 A1 cao

#### Q18.

PAPER: 5MI	B2H 01		200	75
Question	Working	Answer	Mark	Notes
	$\frac{90\times0.5}{5} = \frac{45}{5}$	8.9 – 9.5	2	M1 for at least two of 90, 0.5 and 5 A1 for 8.9 – 9.5

Question	Working	Answer	Mark	Notes
*		95° with reasons	4	M1 for angle $DBC = 180 - 125$ (= 55) or angle $EAC = 180 - 125$ (=55) (May be on diagram) A1 for $x = 95$ C2 (dep on M1) with full reasons for their given method, e.g. angles on a straight line add up to 180° and angles in a triangle add up to 180° and corresponding angles are equal or allied angles / co-interior angles add up to 180° and angles in a triangle add up to 180° (C1 (dep on M1) for one appropriate reason linked to parallel lines)  M1 for angle $CDB = 125 - 30$ (= 95)) (May be on diagram) A1 for $x = 95$ C2 (dep on M1) for full reasons, for their given method, e.g. exterior angles are equal to the sum of the interior opposite angles and corresponding angles are equal (C1 (dep on M1) for one of these appropriate reasons linked to parallel lines)

#### Q20.

uestion	Working	Answer	Mark	Notes
		7.21 (am)	3	M1 for listing multiples 9,18,27,36 and 12,24,36 (condone 1 arithmetic error) or method to find LCM M1 for identifying 36 as LCM A1 cao  OR  M1 for listing times 6.54, 7.03, 7.12, 7.21 or for listing times 6.57, 7.09, 7.21 (condone one arithmetic error) M1 for listing times 6.54, 7.03, 7.12, 7.21 and 6.57, 7.09, 7.21 (condone one arithmetic error) A1 cao

PAPER: 1	MA0_1H			
Question	Working	Answer	Mark	Notes
(a)		2×2×3×3×5	3	M1 for a continual prime factorisation (at least two consecutive steps correct) or at least two stages of a factor tree correct M1 for a fully correct factor tree or list 2,2,3,3,5 A1 for 2×2×3×3×5 or 2²×3²×5
(b)		Eg 6, 30	2	M1 for two numbers with an HCF of 6 or for two numbers with a LCM a multiple of 15 A1 for two numbers with an HCF of 6 and a LCM a multiple of 15 (eg (6, 30), (12, 30),)
				OR M1 for 2×3 and 3×5 or for 2×3×5 A1 for two numbers with an HCF of 6 and a LCM a multiple of 15 eg (6, 30) (12, 30)

# Q22.

Question	Working	Answer	Mark	Notes
		230	2	M1 for 180 + 50 A1 cao OR M1 for 360 - (180 - 50) or 360 - 130 A1 cao OR M1 for 50 + (90 - 50) + 90 + 50 or 50 + 40 + 90 + 50
				OR M1 for a suitable diagram (sketch) with bearing of lighthouse from ship indicated and 50° marked at lighthouse; diagram only intended to indicate position of 50°; ignore other labels and markings unless they create ambiguity. A1 cao

Q23.

Question	Working	Answer	Mark	Notes
(a)	38	150	2	M1 for 180 – (360 – 330) or 180 – 30 or 330 – 180 or a complete diagram showing the bearing of 330° A1 cao
(b)		11 40	4	M1 for 200 ÷ 120 (=1 2/3 h) M1 for conversion between hours and minutes A1 for 1 h 40 min or 100 minutes B1 (ft dep on M1) for 11 40

### Q24.

Question	Working	Answer	Mark	Notes	2
	22.0	Correct line drawn	2	M1 for two pairs of relevant arcs drawn A1 correct line drawn ( with arcs)  SC B1 Correct line no arcs visible	

### Q25.

	Working	Answer	Mark	Notes
*		4 rolls	4	M1 for $\pi \times 2.4$ M1 for $(\pi \times 2.4) \div 2$ or 7.5 to 7.541 M1 for or 3.75 or 3.76 or 3.77 or (2, 4,) 6, 8 C1 for a clear statement that 4 (rolls) are needed

### Q26.

Question	Working	Answer	Mark	Notes
		Translation $\begin{pmatrix} 5 \\ -3 \end{pmatrix}$	2	B1 for translation B1 for $\binom{5}{-3}$ NB No marks if more than one transformation given.

Q27.

Question	Working	Answer	Mark	Notes	Type
		Plan		M1 for 7 × 4 rectangle A1 for correct plan with dividing line	G

#### Q28.

Question	Working	Answer	Mark	Notes
(a) (b)		6 by 4 rectangle drawn	2	B2 for a 6 by 4 rectangle drawn (B1 for a rectangle drawn with one correct dimension)
(8)		3-D sketch	_	M1 for an attempt at a 3-D sketch with a trapezoidal face A1 for a correct 3-D sketch

#### Q29.

Question	Working	Answer	Mark	Notes
(a)		5	1	B1 cao
(b)		7	1	B1 cao

# Q30.

	Working	Answer	Mark	Notes
(a)		15/100	5	M1 for fraction with 15 as the numerator or 100 as the denominator A1 for $^{15}\!\!/_{100}$ oe or 0.15 or 15%
(b)		0	1	B1 oe Accept $^0\!\!/_{100}$ , 0%, 0 out of 100 but not 0:100
(c)		1/10		M1 for 100 – (50 + 25 + 15) A1 oe

Question	Working	Answer	Mark	Notes
		0.06 or 6%	2	M1 for $1 - (0.09 + 0.18 + 0.16 + 0.21 + 0.30$ ) oe OR M1 for $100 - (9 + 18 + 16 + 21 + 30)$ oe OR M1 for $1 - (\frac{9}{100} + \frac{18}{100} + \frac{16}{100} + \frac{21}{100} + \frac{30}{100})$ A1 for $0.06$ or $6\%$ (6 only gets A0) or $\frac{6}{100}$ oe [SC; B1 for 6 on the answer line without working, if M0 scored]

#### Q32.

Question	Working	Answer	Mark	Notes
(a)		32, 12, 88.92	3	B1 for 32 B1 for 12 B1 ft "32" for 88.92
(b)		509.98	3	M1 for a correct step 452.25 + 120 (= 572.25) or 452.25 + 2.56 (= 454.81) or 452.25 - 64.83 (= 387.42) or 120 + 2.56 (= 122.56) or 120 - 64.83 (=55.17) or 64.83 - 2.56 (= 62.27) M1 for a complete method A1 cao

# Q33.

	Working	Answer	Mark	Notes
(a)		1/10	1	B1 for 1/10 or equivalent fraction
(b)		0.25	1	B1 for 0.25

Q34.

5MB3F_01 November 2015							
Working	Answer	Mark	Notes				
	300	1	B1 cao				
	4	1	B1 cao				
	0.7	1	B1 cao				
	Working	300	300 1 4 1				

### Q35.

Working	Answer	Mark	Notes
2x x+3 x+2x+x+3	x+2x+x+3	2	M1 2x or x+3 A1 x+2x+x+3 oe

### Q36.

5MB1F/01 June 2015							
Question	Working	Answer	Mark	Notes			
(a)		1 - x	1	B1 cao			
(b)		200(1 - x)	2	M1 for $200 \times "(1-x)"$ A1 ft e.g. $200(1-x)$ or $200-200x$			

### Q37.

PAPER: 5MB1F 01								
Question V		Working	Answer	Mark	Notes			
*	(a)		diagram or chart	4	B1 for a key or suitable labels to identify Harry and Shamu B1 for horizontal or vertical axis labelled B1 for at least 3 correct plots C1 for fully correct diagram(s) or charts(s)			
	(b)		comparisons	2	B1, B1 ft for any two correct comparisons.			

# Q38.

Question Working		Answer	Mark	Notes
(a)		Graph drawn	2	B2 for correct straight line from (0,0) to (10,25) (B1 for at least 3 points plotted correctly or a line through at least 3 of the points from the table)
*(b)		Kate with comparison	3	M1 for an attempt to convert 62 inches to cm (eg 15×10 + 5) or convert 150 cm into inches (eg 10 × 6) A1 for 60 (inches) or 155 (cm) C1 (dep M1) for Kate with comparison eg '62' > 60 or '155' > 150 ft from a straight line segment

### Q39.

Working	Answer	Mark	Notes
	6.87	4	M1 for $\pi \times 4 \times 4$ or $\pi \times 4^2$ or $\pi \times 16$ or $\pi r^2 = 50.26$ M1 for $\pi r^{2} \div 2$ M1 for $8 \times 4 - \pi r^2 \div 2$ A1 for $6.86 - 6.88$

# Q40.

Question	Working	Answer	Mark	Notes
	π × 20	62.8 cm	3	M1 $\pi$ × 20 or $\pi$ × 19.5 or $\pi$ × 19.95 A1 62.8 – 63 B1(indep) for units consistent with answer

# Q41.

Question	Working	Answer	Mark	Notes
(a)(i)		2.23	4	B1 cao
(ii)	2.19+3×2.23+2.26+2.28+2×2 .29+2.31+2.33 22.64 ÷ 10	2.264		M1 for summing heights and dividing by 10 A1 for 2.26(4)
(iii)		0.14		B1 accept - 0.14
(b)		mean for men is greater and range for women is greater	2	B1 ft for comparison of means B1 ft for comparison of ranges

#### Q42.

5MB3F_01 November 2015							
Question	Working	Answer	Mark	Notes			
(a)		decagon	1	B1 cao			
(b)		1440	1	B1 cao			

### Q43.

5MB3F_01 November 2015							
Question	Working	Answer	Mark	Notes			
		Correct tessellation	2	M1 for at least 5 correct shapes drawn A1 for 7 or more correct shapes drawn in a pattern that can be replicated			

#### Q44.

Question	Working	Answer	Mark	Notes
	(8 = 3 + 3 + 2 =) £9 + £9 + 2×£3.75 = £25.50 £40 - £25.50 = £14.50	14.50	3	M1 for 2×9 + 2×3.75 oe or 18 + 7.5(0) or 25.5(0) seen M1 for 40 – "25.50" A1 cao  (SC B1 for £10 or £13 or £12.25)

Q45.

Question	Working	Answer	Mark	Notes
*	714 × 2 = 1428 714 × 0.95 = 678.30 678.30 × 2 = 1356.60 1428 + 1356.60 = 2784.60 802 × 2 = 1604 802 × 0.85 = 681.70 681.70 × 2 = 1363.40 1604 + 1363.40 = 2967.40	Comparison	5	B1 for identifying 714 and 802  M1 for 95/100 ×'714' oe or 85/100 ×'802'oe M1 for 2 × 'adult' + 2 × 'child' oe for at least on e holiday A1 for 2784.6(0) and 2967.4(0) or 2785 and 2967 C1 for comparing the costs of their two holidays for 2 adults and 2 children and clearly indicating which is cheaper. Conclusion must clearly follow from working. QWC: Decision and justification should be clear with working clearly presented and attributable. (allow full marks for a candidate who has calculated the cost per day for each holiday (397.8(0) and 211.95(7)) and compares these costs accordingly.)

### Q46.

	Working	Answer	Mark	Notes
(a)		6	1	B1 cao
(b)		7	1	B1 cao
(c)		2.6	2	M1 for clear intention to add 4 to both sides <b>or</b> clear intention to divide all terms by 5 A1 for <sup>13</sup> / <sub>5</sub> oe

### Q47.

Working	Answer	Mark	Notes
	41.968	2	B2 for 41.968 (B1 for <sup>5246</sup> / <sub>125</sub> <b>or</b> 32.768 <b>or</b> 9.2)

Q48.

Question	Working	Answer	Mark	Notes
(a)		× at ½	1	B1 for × marked at ½ cao (allow the × above or below the line)
(b)		× at 1/4	1	B1 for × marked at 1/4 (allow the × above or below the line) [Tolerance: the × must be between the 'I' in the word 'probability' above and the 'a' in the word 'scale' above]
(c)		× at 0	1	B1 for $\times$ marked at 0 cao (allow the $\times$ above or below the line)

### Q49.

Question	Working	Answer	Mark	Notes
(a)		b – a	1	B1 cao
(b)		$\frac{(a+b)}{2}$	1	B1 for $\frac{(a+b)}{2}$ oe

### Q50.

	Working	Answer	Mark	Notes
(a)		4d	1	B1 oe
(b)		4x + 12y	2	B2 for 4x + 12y oe (B1 for 4x oe or 12y oe seen as part of an expression in terms of x and/or y

### Q51.

	Working	Answer	Mark	Notes
(a)		5m + 10	1	B1 cao
(b)		y(y + 3)	1	B1 cao
(c)		a <sup>9</sup>	1	B1 cao

Question	Working	Answer	Mark	Notes
		4x + 9y	2	B2for 4x + 9y (B1for 4x or 9y seen)

### Q53.

Paper: 5MB2F_01							
Question	Working	Answer	Mark	Notes			
(a)	*	x <sup>6</sup>	1	B1 cao			
(b)		$y^2$	1	B1 cao			

### Q54.

Question	Working	Answer	Mark	Notes
		6 or – 6	3	M1 for 43 – 7 (=36) or √43 M1 for correct order of operations –7 then intention to square root A1 for 6 or –6 or both OR M1 for x² – 7 =43 M1 for adding 7 to both sides A1 for 6 or –6 or both

### Q55.

Workin	g Answer	Mark	Notes
(a)	44.89	1	B1 cao
(b)	3.7	1	B1 accept -3.7 or ± 3.7

# Q56.

Question	Working	Answer	Mark	Notes
(a)		7000	1	B1 cao
(b)		6	1	B1 cao

# Q57.

Question	Working	Answer	Mark	Notes
(a)		8 000 000	1	B1 cao
(b)		Seven thousand, one hundred and	1	B1 cao
(c)		two	1	B1 cao
(d)		15.5	1	B1 cao
		420		

### Q58.

Paper: 5	MB2F 01			8
Questio	n Working	Answer	Mark	Notes
*		80	4	B1 for EBF = 50 or ABE = 50 M1 for angles given that can lead to x = 80 as the next step  eg EBF = 50 and ABE = 50 eg EBF = 50 and BFG = 100 eg EBF = 50 and BFE = 80 eg EBF = 50 and DEB = 130 and ABE = 50 A1 cao  C1 for stating correct reasons appropriate to their method shown  eg Base angles of an isosceles triangle are equal. with Angles in a triangle add up to 180° with Alternate angles are equal eg Base angles of an isosceles triangle are equal. with Angles on a straight line add up to 180° eg Base angles of an isosceles triangle are equal. with Angles on a straight line add up to 180° eg Base angles of an isosceles triangle are equal. with The exterior angle of a triangle is equal to the sum of the opposite interior angles. with Allied angles / Co-interior angles add up to 180°

### Q59.

Question	Working	Answer	Mark	Notes
*	x+2 + 2x+3 + 2x + x + 3 + 2 = 6x + 10 = 2(3x + 5)	Proof	4	B1 for x + 2 or 2x + 3 seen M1 for perimeter = "x+2" + "2x+3" + 2x + x + 3 + 2 oe A1 for 6x + 10 C1 (dep) for factorising 6x + 10 to give 2(3x + 5)
	OR Half way round $\times$ 2 = $(x+2+2x+3) \times 2$ = $3x + 5$ Perimeter = $2(3x + 5)$			OR  B1 for x + 2 or 2x + 3 seen  M1 for 2 × ("x+2" + "2x+3")  A1 for 6x + 10  C1 (dep) for doubling 3x + 5 to  give perimeter = 2(3x + 5)

#### Q60.

Working	Answer	Mark	Notes
4.5 × 2 + 3 × 2 = 15 or 4 × 3 + 2 × 1.5 = 15 or 4 × 4.5 - 2 × 1.5 = 15	7	4	M1 for a correct method to calculate at least one area using correct dimensions M1 for a complete method to find the total area (can be implied by 15) M1 for "15" ÷ 2.25 (=6.66) or 2.25 × 6 (=13.5) or 2.25 × 7 (=15.75) or repeated addition to within 2.25 of "15" C1 (dep on at least 1 method mark) for 7 packs clearly identified and supported by their calculations