TAKE 5 ... COORDINATES

JustMaths

Q1.

Question		Working	Answer	Mark	Notes
		$\left(\frac{1+4}{2}, \frac{2+0}{2}\right)$	(2.5, 1)	2	M1 for $\frac{1+4}{2}$ and $\frac{2+0}{2}$ or for either the x coordinate correct or the y coordinate correct A1 for (2.5, 1) oe SC: B1for an answer of (1, 2.5) if M0 scored

Q2.

Paper: 5MB3H_01					
Question		Working	Answer	Mark	Notes
			16	3	M1 for a correct first step in a process to find q, eg. a right-angled triangle drawn with correct vertical and horizontal lengths shown or correctly finding the difference in x coordinates and the difference in y coordinates of any two of the three given points M1 for a complete method to find q A1 cao

Q3.

PAPER: 1MA0_2H				
Question	Working	Answer	Mark	Notes
		$p = 8, q = 10$	3	M1 for finding the difference between the x or y coordinates eg $4 - 2$ (= 2) or $17 - 5$ (= 12) M1 for a complete method to find the value of p or the value of q A1 cao

Q4.

PAPER: 1MA0/1H				
Question	Working	Answer	Mark	Notes
(a)		−3, 8	2	M1 for 3 + (3 − 9) (= −3) oe or 5 + (5 − 2) (= 8) oe or $\frac{x+9}{2} = 3$ or $\frac{y+2}{2} = 5$ A1 cao
(b)		$y = -0.5x + 6.5$	3	M1 for a correct method to find the gradient (= −0.5), ft the possible use of coordinates in part (a) M1 for method to find c eg substituting into $y =$ "−0.5"$x + c$ A1 for $y = -0.5x + 6.5$ oe

Q5.

Question	Answer	Mark	Mark scheme	Additional guidance
	(22, 20)	P1	for process to find width or height of diagram eg 38 − 6 (= 32) **or** 36 − 7 (= 29)	Figures may be shown on the diagram
		P1	for process to find length of side of square eg "32" ÷ 4 (= 8) **or** process to find half width of diagram eg "32" ÷ 2 (= 16)	
		P1	for process to find x coordinate eg 6 + 2 × "8" (= 22) **or** 6 + "16" (= 22) **or** (6 + 38) ÷ 2 (= 22)	If (6 + 38) ÷ 2 leads to an answer other than 22, award P2 only
		P1	for process to find y coordinate eg 36 − 2 × "8" (= 20) **or** 36 − "16" (= 20) **or** 7 + "8" + "29" − 3 × "8" (= 20)	
		A1	cao SC: award 4 marks for (20, 22)	Award for P3 for (22, y) or (x, 20) or x = 22 or y = 20