

COORDINATES

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.

8	(a)	(2, 3)	B1	cao	If more than one point marked accept if labelled, otherwise not, unless clear
	(b)	(0, -1)	B1	cao	
	(c)	C at (-2,1)	B1	cao	

Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

2.

8	(a)	-2, -1	B1	cao	Allow without label provided unambiguous; allow if the cross is nearer to (2, 3) than other points. Label not required; allow hand-drawn line. Allow any length provided intention is clear.
	(b)	Point at (2, 3)	B1	cao	
	(c)	Line drawn	B1	cao	

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

3.

7	(a)	(6, -2)	B1	cao
	(b) i	Correct point	B1	cao for point marked at (2, 9)
	(b) ii	Yes with reasoning	B1	Yes with correct substitution $4 \times 2 + 1 = 9$ or by drawing correct line on diagram
	(c)	Correct line	B1	for drawing line $x = -2$ cao

Pearson Edexcel – Specimen 2 - Paper 1 (Non-Calculator) Foundation Tier

4.

5	a	(4, 5)	B1
	b	(1, 4)	B1
	c	Correct line	B1

Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

5.

14	(a)		(0, -1)	B1
	(b)		× marked at (3, 0)	B1
	(c)		(-0.5, 0.5)	B1

OCR Thursday 05 November 2020- Morning (Non-Calculator) Foundation Tier

6.

20			C (24, 9) D (10, 2)	5	<p>B4 for three correct ordinates or B3 for two correct ordinates or B2 for one correct ordinate from 24, 10, 2 or for longer length of triangle = 7 soi or B1 for 9 as y-coordinate for C or for shorter length of triangle = 3 soi</p> <p>OR</p> <p>M1 for long = $17 - 4 - 2 \times \text{their short}$ oe A1FT for C ($4 + 2 \times \text{their short} + 2 \times \text{their long}$, 9)) A1FT for D ($4 + 2 \times \text{their short}$, $9 - \text{their long}$)</p>	<p>For part marks, check ordinates first (may be on diagram if answer line blank). If B2 or fewer check alt method and mark to candidates' advantage</p> <p>B4, B3, B2, B1 May be on diagram</p> <p>For M1 and A1FT, <i>their short</i> and <i>their long</i> needs to be clear in working or on diagram</p>
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Pearson Edexcel – Sample Papers - Paper 3 (Calculator) Foundation Tier

7.

4	(a)		(3, 5)	B1
	(b)		Plotted	B1
	(c)		eg. (5,6) plotted	B1

OCR Thursday 25 May 2017 – Morning (Calculator) Foundation Tier

8.

5	(a)	(i)	(4, 3)	1	
		(ii)	(-2, -1)	1	
	(b)		Point plotted at (3, - 2)	1	Condone use of a letter (R) if clearly in correct position
	(c)		line $y = 3$ drawn	1	minimum length 1 square

AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

9.

Q	Answer	Mark	Comments
7(a)	(3, 4)	B1	
	Additional Guidance		
	(3x, 4y)		B0

Q	Answer	Mark	Comments
7(b)	(0, 8)	B1	SC1 (4, 3) in (a) and (8, 0) in (b)
	Additional Guidance		
	(0x, 8y)		B0

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

10.

6	(2, 5) or (8, 5)	B2	B1 correct point indicated on grid or (x, 5) or (2, y) or (8, y), where x can be x or blank or any number other than 13 and y can be y or blank or any number
	Additional Guidance		
	Mark answer line first, then if no marks scored, check grid for B1 plot		
	No tolerance on values of 2 or 8 for B2 but allow half a square tolerance on plotting for B1		

AQA Thursday 8 November 2018 – Morning (Calculator) Foundation Tier

11.

7(a)	(3, 3.5) or $(3, 3\frac{1}{2})$	B1	
	Additional Guidance		
	A comma used as a decimal point ie (3, 3,5)		B1
	(03, 03.5)		B1
	(0,3, 0,3.5)		B0

7(b)	(4, 4)	B1	
	Additional Guidance		
	(04, 04)		B1
	(0,4, 0,4)		B0

7(c)	Line from (0, 0) to (4, 2)	B2	B1 line from (0, 0) to (4, 2) with slight inaccuracy or line parallel to <i>AB</i> from any point which extends across at least two horizontal squares
	Additional Guidance		
	Parallel line that extends beyond the grid		B1
	Line drawn that is completely off the grid		B0
	Use the full length of the line to judge accuracy – there should be no gap between their line and the relevant integer points		
	Mark intention for straightness		
	Ignore other lines that could be working for parts (a) and (b)		

AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

12.

26	<p>x-coordinate of $C = 12$ or y-coordinate of $C = 8$ or 12 marked on x-axis below C and 8 marked on y-axis left of C or x-coordinate of $D = 6 + 6 + 6$ or y-coordinate of $D = 2 + 3 + 3 + 3$ or $\frac{x}{6} = 3$ or $6 = (2 \times 0 + x) + 3$ or $\frac{y-2}{5-2} = 3$ or $5 = (2 \times 2 + y) + 3$ or 18 marked on x-axis below D or 11 marked on y-axis left of D</p>	M1	<p>oe</p> <p>sets up a correct equation for x-coordinate of D or y-coordinate of D</p>
	<p>(C is the point) (12, 8) or (D is the point) (18, ...) or (... , 11) or 18 marked on x-axis below D and 11 marked on y-axis left of D</p>	A1	condone missing brackets if intention is clear
	18, 11	A1	
	Additional Guidance		
	(12,8 , 18,11) on answer line with previous link to C and D		M1A1A1
	(12,8 , 18,11) on answer line with no previous link to C and D		M1A1A0
	12, 8 on answer line with no other working		M1A1A0
	Accept correct working on diagram and correct answer on diagram if not contradicted by answer line		
11, 18 on answer line does not score the last mark, but may score M1A0 or M1A1			
11, 18 with no working		M0A0A0	

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

13.

7a	Right-angled triangle ABC drawn with A at (-3, -2) and B at (1, -2) and C at (-3, 4) or (1, 4)	B3	B2 for A, B and C correctly plotted with no triangle drawn or A and B correctly plotted and a right- angled triangle drawn with A and B at two of the vertices or C plotted on the line $y = 4$ and a right- angled triangle drawn with C at one of the vertices or A and B correctly plotted with C plotted at ($k, 4$) with $k \neq -3$ or 1 and triangle ABC drawn B1 for A and B correctly plotted or C plotted on the line $y = 4$ or a right-angled triangle drawn
	Additional Guidance		
	Condone incorrect or omitted labelling		

7b	Alternative method 1		
	$\frac{1}{2} \times$ their base \times their height	M1	
	12	A1ft	ft their triangle
	Alternative method 2		
	Evidence of counting squares seen	M1	
	12	A1ft	ft their triangle

AQA Sample Paper 3– Morning (Calculator) Foundation Tier

14.

9	$(-2, 3)$ and $(2, 1)$	B2	B1 $(-2, 3)$ or $(2, 1)$ or $(-2, 3)$ and $(2, 1)$ correctly plotted SC1 $(3, -2)$ and $(5, 2)$ or $(-5, 2)$ and $(-3, 6)$
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