AREA AND PERIMETER

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Foundation Tier

1.					
	13	34	M1	for start to method, eg $10-4$ (= 6) or $7-5$ (= 2) or $10+7+4+5$ (=26) or $(10+7) \times 2$	6, 2 may be seen on diagram
			A1	cao	

Pearson Edexcel - Tuesday 11 June 2019 - Paper 3 (Calculator) Foundation Tier

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4	۷.

16	32	P1	for a process to work out the missing length eg $6 - 4$ (=2) or for a process to work out the length of the base eg $4 + 6$ (= 10) OR for finding total perimeter of 2 rectangles, eg $2(6 + 4 + 6 + 4)$ (= 40) OR for writing at least 5 figures correctly on the diagram	May be seen on the diagram
		P1	for a process to work out the perimeter eg 4 + "2" + 6 + 4 + 6 + 4 + 6 or 20 + 20 - 2 × 4 or 16 + 14 + "2"	May be seen in different forms
		Al	cao SC B1 for 30	

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Foundation Tier

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1	3 (a)	36	P1	square root of 81 eg $\sqrt{81}$ or 9 or 9 × 4	9 could be seen on the diagram
			Al	cao	
	(b)	12	M1	finding area of triangle eg $\frac{1}{2}$ (16 × 9) (=72)	
			M1	equating with area of parallelogram eg [area of triangle] $\times 5 = 30 \times h$ or (<i>h</i> =) [area of triangle] $\times 5 \div 30$	[area of triangle] must be 72 or 144 or come from $\frac{1}{2}(16 \times 9)$ or 16×9
				or $(h =)$ [area of triangle] \div 30 or sight of 2.4	
			A1	cao	

Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Foundation Tier

21	Triangle of area 18	M1	for a complete method to find area of trapezium eg $\frac{1}{2}(2+7) \times 4$ (= 18) OR for a triangle drawn of area 36 OR for a triangle that would give an area ft their area of trapezium	The value for the area of the trapezium must be clear for the ft to be checked.
		A1	for a triangle drawn of area 18 eg base = 6, height = 6 or base = 9, height = 4	Accept use of dimensions that are not whole numbers as long as the intention is clear

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

5.				
	8	4 × 8 rectangle drawn	M1	Draws a rectangle with side lengths in the ratio 2:1 or lists possible dimensions in the ratio 2:1 or gives two numbers which multiply to 32
			A1	for correct diagram on grid

Pearson Edexcel - Monday 6 November 2017 - Paper 2 (Calculator) Foundation Tier

10 (a)	12 cm ²	B1	for numerical answer of 12
		B1	for units shown as cm ²
<mark>(</mark> b)	kite	B1	cao

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

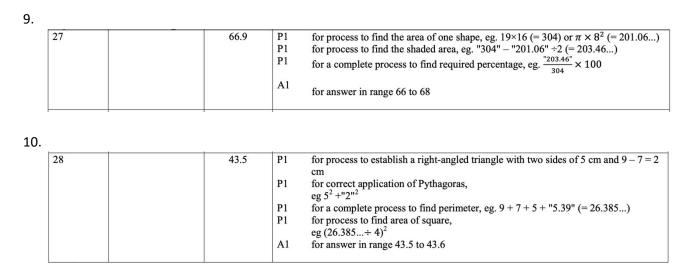
7.					
	20	16÷4	5 8	P1	Using side lengths of 4
		$\frac{\frac{1\times4}{2}}{\frac{2\times4}{2}} = 4 \text{ or } \frac{\frac{1}{2}\times\frac{1}{4}}{\frac{1}{2}\times\frac{1}{2}} = \frac{1}{\frac{1}{4}}$	8	P1	Method to find fraction or area for one unshaded triangle
		$\frac{1 \times 4}{2} + \frac{2 \times 4}{2} = 6 \text{ or } \frac{1}{2} \times \frac{1}{4} + \frac{1}{2} \times \frac{1}{2} = \frac{3}{8}$		P1	Method to complete fraction or area for total unshaded region
		$16 - 6 = 10 \text{ or } 1 - \frac{3}{8} = \frac{5}{8}$		P1	Method to find total fraction or area for shaded region
				A1	for $\frac{5}{8}$ oe or 0.625

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

8	

30	48	P1	process to start solving problem, eg forms an
			appropriate equation
		P 1	complete process to isolate terms in x
		A1	for $x = 6.5$ oe
		B 1	ft (dep P1) for correct perimeter for their x

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



Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

11.

16 (i) (ii) (iii)		C1 Diagram with decreased perimeter drawn C1 Diagram with same perimeter drawn C1 Diagram with increased perimeter drawn

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

16	$ \begin{array}{r} 4x - 10 = 11 - 2x \\ 4x + 2x = 11 + 10 \end{array} $	M1 M1	or better	At method M1 for $(4x - 10)(11 - 2x) = 2(4x - 10) + 2(11 - 2x)$ or better M1 for $2x^2 - 15x + 28 = 0$
	x = 3.5 [Dimension of square =] 4	A1 B1	Correct or FT 4 × <i>their</i> $x - 10$ or $11 - 2 \times their x$	Dep on use of algebra Identifying 4 as the side of the square may be implied by later calculations
	One perimeter/area calculation correctly evaluated Perimeter and area both shown to be 16	B1 A1	FT 4 × <i>their</i> length of square or (<i>their</i> length) ²	B1FT Dep on previous B. Allow embedded solution Dep on all previous marks earned and that only x = 3.5 leads to perimeter = area

OCR November 09 November 2020- Morning (Calculator) Foundation Tier



17	2.25 nfww	5	B2 for 36 or M1 for $\frac{9 \times 8}{2}$	8 × 9 = 72 then 72 ÷ (20 + 12) = 2.25 is wrong working May be in stages
			AND	
			M2 for $\frac{1}{2} \times (12 + 20) \times h = their$ area of triangle oe or M1 for $\frac{1}{2} \times (12 + 20) \times h$ oe	Allow (<i>their</i> area of triangle) \div 16 or better e.g. 36 \div 16 or72 \div 32 for M2 M2 and M1 may have area in stages e.g. 12h $+\frac{8h}{2}$ (rectangle $+$ one or two triangles) May be two trials approaching <i>their</i> area of triangle or one correct trial with 2.25 May be 16 <i>h</i> or one trial with value for <i>h</i> substituted to attempt <i>their</i> area of triangle

OCR Tuesday 5 November 2019 – Morning (Calculator) Foundation Tier

14.

10		16 nfww	5	M2 for 12 as area of triangle nfww or M1 for (6 × 4) ÷ 2	-
				AND	
				M1 for <i>their</i> 12 × 4. <i>Their</i> 12 must be from an attempt at the area of the triangle	
				M1 for their 48 ÷ 3	48÷3÷2 = M0

15	16.5	4	B3 for 5.5 [cm] nfww	
			or	
			M2 for $3x + x + 3x + x = 44$ or better	May be other letters or in words for
			or 44 ÷ 8 oe	2 or 1 mark
			or	
			M1 for 3x [as length] and x [as width]	3x and x may be on diagram
			or 4x [as length + width]	
			or 8x [as perimeter]	
			OR	
			Using trial length and width with length	
			$= 3 \times \text{width}$	
			M1 for a perimeter found	
			M1 for a second perimeter closer to 44	
			If 0 scored SC1 for answer 33	

17	2.25 nfww	$\begin{array}{c} 5 \\ \text{B2 for 36} \\ \text{or} \\ \text{M1 for } \frac{9 \times 8}{2} \end{array}$	8 × 9 = 72 then 72 + (20 + 12) = 2.25 is wrong working May be in stages
		AND	
		M2 for $\frac{1}{2} \times (12 + 20) \times h =$ triangle oe or M1 for $\frac{1}{2} \times (12 + 20) \times h$ o	M2 M2 and M1 may have area in stages e.g. $12h + \frac{8h}{2}$ (rectangle + one or two triangles) May be two trials approaching <i>the</i> area of triangle or one correct trial

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

17.

				~	
13		75 cao nfww	4	M1 for inventing a length and width and correct answer to <i>their</i> length × <i>their</i> width	May be algebraic "x by y" rectangle (Diagram is 11 cm by 5 cm)
				M1 for correct area of one triangle	Accept equal length and width Or a trapezium = half shaded area
				M1 for <i>their</i> rectangle area $-2 \times their$ triangle area oe	May be $6 \times$ one triangle or $2 \times$ one triangle or $2 \times$ one
				OR M1 for subdividing shape into right triangles and/or rectangles	e.g.
				B2 for shaded area = $\frac{6}{8}$ oe of rectangle or	May be as 8 triangles make the rectangle
				B1 for one triangle = $\frac{1}{8}$ oe or 12.5% of	localigio
				rectangle oe OR M1 for recognising two triangles = rectangle	
				B2 for shaded area = $\frac{3}{4}$ or $e = \frac{6}{8}$ of rectangle or M1 for two triangles = $\frac{1}{4}$ or $\frac{2}{8}$ oe or 25% of	May be as 8 triangles or 4 rectangles make the rectangle
				rectangle 4 8	Example for 11 by 5
					M1 for 11 × 5 = 55
					M1 for 5.5 × 2.5 ÷ 2 = 6.875
					M1 for 55 – 13.75 = 41.25

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier



22		80 nfww	5	B3 for height [of B =] 10	May be seen on diagram
				OR	
				M2 for $3x^2 = their (12 \times 25)$ or better	May be implied by arithmetic
					processing e.g. $\sqrt{\frac{their (12 \times 25)}{3}}$
				or	or at least two trials of 3 × number × number intending 300
				M1 for $3x \times x$ oe or 300 seen A1 for $x = 10$	
				AND	
				M1 for (2 × <i>their</i> 10) + (2 × 3 × <i>their</i> 10) oe or for 2a + 2b where ab = 300 but not with 25 and 12	Allow their 10 if clearly intended as height e.g. " $h =$ " or marked on diagram e.g. M1M1 for 2 × 36 + 2 × 8.3[3]

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

19.

5	а	10	1	
	b	1	1	

OCR Tuesday 6 November 2018 – Morning (Calculator) Foundation Tier

20.

16	7x + 2 final answer	4	B2 for 28x + 8	
			or B1 for 28x + k or jx + 8	<i>j</i> ≠ 0
				B1 not from only one side e.g. 5x +8
			or	
			M1 for 5x + 3 + 7x + 4 + 9x - 10 + 5x + 8 + 2x + 3	
			AND	
			M1 for their (28x + 8) ÷ 4 soi	
				must be an algebraic expression in
				the form ax + b

OCR Thursday 7 June 2018 – Morning (Non Calculator) Foundation Tier

5	a	Rhombus	1	Accept any clear indication
	b	2	1	
	C	12	2	Accept any full method for area eg $\frac{1}{2} \times 4 \times 6$

22.				
15	[£]225[.00] nfww	6	B3 for 54 [tiles] OR M1 3 × 4.5 oe or 300 × 450 oe or 4.5 ÷ 0.5 or 450 ÷ 50 oe soi and	Could be on diagram
			M1 0.5 × 0.5 oe or 50 × 50 oe or 3 ÷ 0.5 or 300 ÷ 50 oe soi AND	Could be in diagram
			M1 for their 6 × 20	their 6 is correct number of packs for their number of tiles – must be positive integer, implied by 120
			M1 for their 14 × 7.5	<i>their</i> 14 is <i>their</i> answer to (3 × 4.5) rounded up to next integer, implied by 105

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

23.

13	(a)	(i)	6a + 10b or 2(3a + 5b) final answer	2	M1 for $6(a + b) + 2 \times 2b$ oe If 0 scored SC1 for 3a + 5b as final answer	M1 for EG $a + b + a + b + a + b + a$ + $b + a + b + a + b + 2b + 2b$ or $2 \times (3a + 3b + 2b)$ etc
		(ii)	6b(a + b) final answer	2	B1 for $6(ab + b^2)$ or $b(6a + 6b)$ or $3(2ab + 2b^2)$ or $3b(2a + 2b)$ or $2(3ab + 3b^2)$ or $2b(3a + 3b)$	
	(b)		4 by 1 rectangle with 4a + 4b and 2b or 2 by 2 rectangle with 2a + 2b and 4b or 1 by 4 rectangle with a + b and 8b stated or marked on rectangle	5	B4 for $4a + 4b$ and $2b$ or 2a + 2b and $4b$ or a + b and $8borB3 for rectangle drawn as(4 by 1) or (2 by 2) or (1 by 4)orB2 for one of 2a + 2b or 4a + 4b or$	Accept unsimplified throughout Once correct expression(s) seen, ignore incorrect simplification to answer line In answer space or intended as final length and width Must clearly be answer May be in attempt to factorise EG
					4b or 8b or B1 for any rectangle of 3 or more tiles drawn with a+b or 2b marked on individual tiles	4b(2a + b) Accept unsimplified EG a+b + a+b Only tiles that form the perimeter needed

OCR Monday 6 November 2017– Morning (Calculator) Foundation Tier

4.				
13	[length =] 15 [width =] 5	3	M1 for perimeter PQRS = 16 or 2 × <i>their</i> length + 2 × <i>their</i> width = 40 M1 for ratio length AB to BC oe = 3:1 soi or $\frac{40}{their16}$ soi	Condone length = 5 width = 15 If answer line is blank accept 15 and 5 correctly placed on the diagram

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

25.

21	214	5	B4 for 214.2 or 214.24 to 214.26	Accept 120 + 30 π for B4
			OR	
			B1 for 60 marked or used as width of rectangle or distance from B to the corner	Allow e.g. r = 60 for B1
			AND	
			M2 for $\frac{1}{4} \times \pi \times 120$ soi by 30π , 94.2 or 94.24 to 94.26 or M1 for $\pi \times 120$ soi by 376.8 to 377.1 or $\frac{1}{2} \pi \times 120$ soi by 188.4 to 188.6 AND M1 for $2 \times their 60 + their 30\pi$	
			AND B1 for their final answer written to more than 3 figs correctly rounded to 3 s.f. to a max. of 4 marks	

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

12	а	Valid reason	1	Such as 'to make it easier to work out the area'	See Appendix B
	b	19000 or 19200	5	M2 for 150 × (180 + 220) +2 soi Or M1 attempt at an area And M1 attempt to convert <i>their area</i> to hectares soi And M1 for 6400 × <i>their area</i>	Mark answer line first, award 5 for a correct answer. If incorrect, then award M marks for correct steps seen Area of trapezium 30000 Such as 180 x 150 or 220 x 150 Eg <i>their</i> area in m ² or hectares eg 180 x 150 x 6400 or 6400 x 30000 or eg 6400 x 3 For the final 2 marks their area may have come from an attempt at perimeter, volume, etc

OCR Tuesday 13 June 2017 – Morning (Calculator) Foundation Tier

27.

12	68.8	3	M2 for 2 ×(12 + 15 + 7.4)	Accept any other complete and correct methods
			OR	
			M1 for 15 - 5.8 - 6.3 soi 2.9	May be 15 – 12.1
			M1 for 12 + 15 + 12 + 6.3 + 7.4 + <i>their</i> 2.9 + 7.4 + 5.8 oe	If not 2.9 then <i>their</i> 2.9 must be seen on diagram in correct place or come from $15 - 5.8 - 6.3$

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

28.

6	(a)	40 (cm)	2	M1 for $4 \times their \sqrt[4]{100}$	
			1 AO1.3a		
			1 AO3.1a		
	(b)	Correct working leading to 4 cm	4	B1 for area of triangle is 24	
			1 AO1.3b	B1 for <i>their</i> '24' × 3	
			2 AO2.2 1 AO2.4a	B1 for <i>their</i> '72' ÷ 18 or	
			1 402.44	area of parallelogram = 18 <i>h</i>	

OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

29.

19		2a + 1	4	M1 for <i>a</i> + 2 + 3 <i>a</i> + 3 + 4 <i>a</i> – 1	
				M1 for collecting terms M1 for dividing <i>their</i> '8 <i>a</i> + 4' by 4	

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

Q	Answer	Mark	Comment	s			
	Alternative method 1						
	9 × 2 or 18 or (8-2) × 4 or 24	M1	oe				
	9 × 2 + (8 – 2) × 4	M1dep	oe eg (9-4) × 2 + (8-2) ×	: 4 + 4 × 2			
	42	A1					
	Alternative method 2						
	8 × 4 or 32 or (9-4) × 2 or 10	M1	oe				
	8 × 4 + (9 – 4) × 2	M1dep	oe eg (9-4) × 2 + (8-2) ×	: 4 + 4 × 2			
	42	A1					
16(a)	Alternative method 3						
	9 × 8 or 72 or (8-2) × (9-4) or 30	M1	oe				
	9 × 8 – (8 – 2) × (9 – 4)	M1dep	oe				
	42	A1					
	Additional Guidance						
	A correct area seen but not used may	y score M	1				
	9 × 2 = 18, 8 × 4 = 32 and 18 × 32			M1M0			
	9 × 2 × 8 × 4	MO					
	The 2nd M is for a complete method eg $9 \times 2 = 18$, $6 \times 4 = 24$, $18 + 24 = 24$	M1M0					
	Beware eg 8 + 4 + 8 + 4 = 24 which i	MO					
	Ignore any units given with answer						

Q	Answer	Mark	Comment	ts
	Valid criticism	B1	eg the formula is $\frac{1}{2} \times ba$ or the answer is double to answer or he has forgotten the $\frac{1}{2}$ or it should be $\frac{1}{2} \times 12 \times 12$ or it should be 48	the correct
	Ado			
	He needs to halve 12 (which is 6, 6 ×	B1		
	He hasn't halved the base	B1		
16(b)	0.5 × 12 × 8 = 48	B1		
	His method was to work out a rectand	B0		
	He should divide by half			B0
	He didn't use the area of a triangle fo	rmula		B0
	He should have timesed all the meas	urements	and divided by 2	B0
	Ignore irrelevant statements alongsid	e a correc	ct statement	
	eg1 he has forgotten to divide by 2, t			B1
	eg2 should have divided by 2, he we	orked out	the area of a rectangle	B1
	Two statements, one correct, one inc			
	eg1 he has forgotten to divide by 2,			BO
	eg2 should have divided by 2, he we		-	BO
	eg3 forgot to halve the base, should	have bee	en 6 × 8 = 49	BO

AQA Thursday 6 June 2019 – Morning (Calculator) Foundation Tier

31.

	0.5 × 10 × 12 or 60	M1	oe		
	180 ÷ their 60	M1dep			
18	3	A1	SC1 1.5 oe		
	Additional Guidance				

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

32.

	24 cm	B1					
1	Additional Guidance						

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

33.

	× 3	B1			
10	Additional Guidance				

	4x + 5 = 6x - 10 = 10(x - 4)	4x + 5 = 6x - 10 = 10(x - 4)		
	Ad	Iditional G	uidance	
	105 and Yes	A1	oe eg 1.05 and Yes	
25	+ 10 × (their 7.5 – 4) or 20 × their 7.5 – 45 or 105			
	or $(4 \times \text{their } 7.5 + 5) \times 3$ or $10 \times (\text{their } 7.5 - 4) \times 3$ or 35×3 or $6 \times \text{their } 7.5 - 10 + 4 \times \text{their } 7.5 + 5$	M1dep	dep on M1M1 condone 10x – 4 for 10(x – must show working if M1M	Ser.
	(x =) 7.5 (6 × their 7.5 – 10) × 3	A1	oe may be implied by (side ler or (perimeter =) 105 oe	ngth =) 38
	4x - 6x = -10 - 5 or $-2x = -15$ or $4x - 10x = -40 - 5$ or $-6x = -45$ or $6x - 10x = -40 + 10$ or $-4x = -30$	M1dep	oe collection of terms eg $4x + 6x - 20x = -80 - 5$ or $-10x = -75$ condone $10x - 4$ for $10(x - 6x - 10x) = -4 - 5$ or $6x - 10x = -4 + 10$	
	4x + 5 = 6x - 10 or $4x + 5 = 10(x - 4)$ or $6x - 10 = 10(x - 4)$	M1	oe eg $4x + 5 + 6x - 10 = 2 \times 10^{-10}$ condone $10x - 4$ for $10(x - 10)$	

AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

	Alternative method 1				
	15 ² or 225	M1			
	their 225 + 9 or 25	M1dep	oe		
	5	A1			
	Alternative method 2				
	√9 or 3				
	or	M1			
	$\sqrt{\frac{1}{9}}$ or $\frac{1}{3}$				
	15 + their 3		oe		
	or 1	M1dep			
13	15 × their $\frac{1}{3}$				
	5	A1			
	Alternative method 3				
	$\left(\frac{x}{15}\right)^2 = \frac{1}{9}$	M1	oe		
	$(x^2 =) \frac{15^2}{9}$ or 25	M1dep	oe		
	5	A1			
	Additional Guidance				
	3 <i>x</i> = 15			M1M1	
	$5^2 = 25$ without 5 on answer line			M1M1A0	
	1:3 or 3:1			M1	

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

	Alternative method 1 – width of small rectangle is x (any letter)			
	x and 2x or x + 2x + x + 2x or 6x	M1	oe	
	x + 2x + x + 2x = 15 or $6x = 15$	M1dep	oe	
	(<i>x</i> =) 2.5	A1	from correct working or with 5 as the other dimension or with 7.5 as the length of the large rectangle	
	25	A1ft	ft 10 × their 2.5 with M1M1 awarded	
	Alternative method 2 - length of s	mall recta	angle is x (any letter)	
	x and $\frac{x}{2}$ or $x + \frac{x}{2} + x + \frac{x}{2}$ or $3x$	M1	oe	
31	$x + \frac{x}{2} + x + \frac{x}{2} = 15$ or $3x = 15$	M1dep	oe	
	(<i>x</i> =) 5	A1	from correct working or with 2.5 as the other dimension or with 7.5 as the length of the large rectangle	
	25	A1ft	ft 5 × their 5 with M1M1 awarded	
	Alternative method 3 – a = width of small rectangle and b = length of small rectangle (any letters)			
	b = 2a or 10a or $5b$	M1	correct expression for perimeter of the large rectangle in one variable	
	6a = 15 or 3b = 15	M1dep	correct equation in one variable	
	(a =) 2.5 or (b =) 5	A1	from correct working or with both values correct or with one value correct and 7.5 as the length of the large rectangle	
	25	A1ft	ft 10 × their a or 5 × their b with M1M1 awarded	

	Alternative method 4 – trial and improvement using ratio of sides				
	length = 2 × width seen or implied	M1			
	Two correctly evaluated trials for perimeter of small rectangle with length = 2 × width	M1dep	eg 8 + 4 + 8 + 4 = 24 and 10 + 5 + 10 + 5 = 30		
	2.5 and 5	A1	implied by 2.5 + 5 + 2.5	+ 5 = 15	
	25	A1			
31(cont)	Additional Guidance				
	Note that there is no ft in method 4				
In all methods, marks can be awarded for annotation of the diagr with lengths clearly identified, or working inside or alongside the diagram					
	eg 2.5 and 5 marked correctly as the	dimensio	ns of the small rectangle	M1M1A1	
	2.5 marked as the width of the small length of the large rectangle	rectangle	and 7.5 marked as the	M1M1A1	
If full marks not awarded, mark both the diagram and working then award the better mark					
	In alt 4, one or more trials may be crossed out to indicate that they do not give the correct perimeter. Do not treat this as the usual crossed out work not to be marked if replaced.				

AQA Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

	0.5 × 9 × 5.6	M1	oe	
	25.2	A1		
14	Ado			
	25 on answer line with 25.2 in working			M1A1
	25 on answer line with no or incorrect	MO		

AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

	$\frac{1}{2}(b+2b)h \text{ or } 3 \times \frac{1}{2}bh$	M1	oe	
	1.5bh or $\frac{3}{2}bh$ or $\frac{3bh}{2}$ or $1\frac{1}{2}bh$	A1	accept <i>hb</i> for <i>bh</i>	
	Additional Guidance			
26(a)	a) Correct expression with ×, ÷ or brackets			M1A0
	Condone units within expressions for M1 only Condone the expression given within a formula			
eg <i>A</i> = 1.5 <i>hb</i>				M1A1
	Condone correct expression stated a values substituted	Condone correct expression stated and then equated to a value or with values substituted		

	3b + 2s or 3b = 2s or 4s	M1	oe	
26(b)	6 <i>b</i>	A1	oe eg <i>b</i> + <i>b</i> + <i>b</i> + <i>b</i> + <i>b</i> + <i>b</i>	
	Ado			
	Condone the expression given within a eg $P = 6b$		1	M1A1

AQA Monday 6 November 2017 – Morning (Calculator) Foundation Tier

39.

	2 × π × 37 or π × 74 or 8 × 37 or 296	M1	Accept [3.14, 3.142] for π	
	[232, 233] or 74π	A1	May be implied by eg 74 π +	
16	[528, 529] or 74π + 296	A1		
	Additional Guidance			
	360 – 37 × 8			M1A0A0
	37 × 8 or 296 seen and then eg halved or doubled			M1

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

	Alternative method 1				
	40 ÷ 4 or 10 or 30	M1	Accept evidence on diagra	m	
	32 – their 10 or 22	M1dep	Accept evidence on diagram		
	3 × their 10 + their 22	M1dep	dep on M2		
	52	A1			
	Alternative method 2				
	40 ÷ 4 or 10 or 30	M1	Accept evidence on diagram		
11	2 × their 10 or 20	M1dep			
	32 + 40 – their 20	M1dep	dep on M2		
	52	A1			
	Additional Guidance				
	The two top sides on the triangle given values adding to 22 can be accepted as evidence of 22				
	Beware of appearance of 20 for reasons that are not worth the second mark eg 10, 20, 30, 40			M1 earned at that point	
	Beware - wrong working can lead to the appearance of 52 (after rounding)				

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	Rectangle: 4	B1	
10	Triangle: 0.5 × ? × 16 = 24 or (2 ×) 24 ÷ 16 or (2 ×) 1.5 or 2 × 24 or 48	М1	oe
	3	A1	
	Additional Guidance		
	Ignore any units given		