SCALE DRAWINGS

Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

1.

9			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

Pearson Edexcel - Monday 8 June 2015 - Paper 2 (Calculator) Higher Tier

2.

10			Loci drawn	3	B1 for line parallel to *BC* and 3 cm from *BC* B1 for arc drawn, centre *C*, with radius 4 cm B1 ft for shading a region below their horizontal line **and** inside their arc

Pearson Edexcel - Wednesday 5 November 2014 - Paper 1 (Non-Calculator) Higher Tier

3.

10			construction	2	M1 for a pair of arcs or a single arc, centre *C*, that cut line *AB* **and** at least one pair of arcs not at *C* within guidelines A1 for perpendicular within guidelines with appropriate construction arcs **OR** M1 for an arc, centre *A* radius *AC* **and** an arc centre *B* radius *BC*. The two arcs must intersect below *AB* A1 for perpendicular within guidelines with appropriate construction arcs (SC If M0 scored, B1 for correct perpendicular line within guidelines)

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

4.

8			Correct region	3	B1 for full line drawn 1.5 cm from edge of patio and parallel to it B1 for full arc of circle radius 3 cm centre the centre of the pond B1 ft for shading region to the right of their vertical line **and** outside the arc of their circle with correct centre

Pearson Edexcel - Wednesday 6 November 2013 - Paper 1 (Non-Calculator) Higher Tier

5.

*10			Not enough, needs £133	5	M1 for splitting the shape (or showing recognition of the "absent" rectangle) and using a correct method to find the area of one shape M1 for a complete and correct method to find the total area M1 for a complete method to find 70% of 19 (= 13.3) or 70% of their total cost or 70% of their area A1 114(m^2) and (£)133 **or** 114(m^2) and (£)13.3(0) and 108(m^2) C1 (dep on M2) for a conclusion supported by their calculations OR M1 for a complete method for the number of tins required for one section of the area of the floor M1 for a complete method to find the number of tins for the whole floor M1 for a complete method to find 70% of their total number of tins and multiply by 19 A1 (£)133 C1 (dep on M2) for a conclusion supported by their calculations

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

6.

*13			Yes with explanation	3	M1 for bearing ± 2 ° within overlay M1 for use of scale to show arc within overlay or line drawn from C to ship's course with measurement C1(dep M1) for comparison leading to a suitable conclusion from a correct method

Pearson Edexcel - Thursday 28 February 2013 - Paper 1 (Non-Calculator) Higher Tier

7.

15			Required region	4	M1 arc radius 5 cm centre *C* M1 bisector of angle *BAD* M1 line 3 cm from *DC* A1 for correct region identified (see overlay)

Pearson Edexcel - Tuesday 6 November 2012 - Paper 1 (Non-Calculator) Higher Tier

8.

10			Region shaded	3	B1 for circle arc of radius 3cm (± 2mm) centre Burford B1 for circle arc of radius 5 cm (± 2mm) centre Hightown B1 for overlapping regions of circle arcs shaded

OCR GSCE – Tuesday 5 November 2019 – Paper 6 (Calculator) Higher Tier

9.

13	**(a)**		241.[1…]	**3**	**M2** for 90 ÷ 72^3 [× 100^3] or **B1** for 72^3 or 373 248 or 100^3 or 1 000 000	 implied by e.g. 90 000 000
	(b)		392	**3**	**M2** for 8 × 7 × 7 or **M1** for 8 × 7 × 8 or 8, 7, 7 clearly identified (e.g. summed) if **0** scored award **SC2** for 8 × 7 × 6 or **SC1** for 8 × 8 × 8 , 6 × 7 × 6	 e.g. 448 as answer implied by 336 implied by 512 or 252

OCR GSCE – Thursday 7 November 2019 – Paper 5 (Non-Calculator) Higher Tier

10.

9	**(a)**		2500	**1**		Ignore units

9	**(b)**		Bisector of angle BCD accurate with pairs of correct arcs	**M2**	**B1** for accurate bisector of angle BCD with no/incorrect arcs	Tol ± 2° use overlay Condone solid/broken lines bisector
			Arc centre E radius 3 cm with length fit for purpose	**M2**	**B1** for arc centre E	Tol ± 2 mm For B1 accept 5 correctly marked points in tolerance
			No **oe** with correct constructions	**B1**	Dep on at least **B1M2**	Accept the boat will travel within 75 m

OCR GSCE – Monday 12 November 2018 – Paper 6 (Calculator) Higher Tier

11.

5	**(a)**		180 ÷ 3.5 × 11.2 = 576 or 180 ÷ 3.5 = 51.4[…] **and** 576 ÷ 11.2 = 51.4[…] or 576 ÷ 180 = 3.2 **and** 11.2 ÷ 3.5 = 3.2	**3**	**M2** for 180 ÷ 3.5 × 11.2 or 180 ÷ 3.5 **and** 576 ÷ 11.2 or 576 ÷ 180 **and** 11.2 ÷ 3.5 or **M1** for 180 ÷ 3.5 soi 51.4[…] or 576 ÷ 11.2 soi 51.4[…] or 576 ÷ 180 soi 3.2 or 11.2 ÷ 3.5 soi 3.2	For M marks allow figs used eg **M2** for 18 ÷ 350 × 112 If in two stages: For full marks, condone premature rounding if accurate and answer is stated as 576. E.g. **3** marks for 180 ÷ 3.5 = 51.4 and 51.4 × 11.2 [= 575.68 or 575.7] **= 576 (required)** eg **M2** for 180 ÷ 3.5 = 51.5 and 51.5 × 11.2 = 576 Accept equivalent methods eg divisions inverted or correct use of lengths in other units.
	(b)		No oe and correct explanation	**2**	**B1** for 180 ÷ *k* × 11.2 where *k* > 3.5 leading to answer <576 or [180 ÷ 3.5 =] 51.4… **and** 180 ÷ *k*, *k* > 3.5 leading to answer <51.4(…) or Each cm on the map will be worth fewer km in real life oe	For full marks, clear conclusion and an explanation earning **B1** is needed [180 ÷ 3.5 =] may be referred to in (a)
	(c)		7500 cao	**2**	**M1** for figs 18 ÷ figs 24 soi figs 75	If units included in answer max **M1**

OCR GSCE – Thursday 24 May 2018 – Paper 4 (Calculator) Higher Tier

12.

5	**(a)**		610.7 to 632.2	**5**	**B2** for 1425 to 1475 or **B1** for 11.4 to 11.8 or **M1** for *their length* × 125 AND **B1** for $2\frac{1}{3}$, 2[h] 20 or 2.33… or 140 and **M1** for distance ÷ time and **A1FT** ft for a correct answer for *their length*	See additional guidance This calculation must be seen and distance must be *their* measurement or *their* measurement × 125. You must be convinced that it is a time as a divisor.

	(b)		accept any correct reason e.g. it may not have flown in a straight line or it may have been diverted	**1**		If more than one choose the best one. Comment about distance only, see list of exemplars.

OCR GSCE – Thursday 24 May 2018 – Paper 4 (Calculator) Higher Tier

13.

7	**(a)**		Accurate angle bisector with 2 pairs of correct arcs	**2**	**B1** for correct bisector with no arcs or incorrect arcs	The bisector does not have to go through A but if extended it must go through A and it must lie within green lines in overlay. For **2** marks condone intersecting arcs of equal radius, one centre B and the other centre C for the construction with bisector drawn.
			Arc centre C radius 7cm	**2**	**B1** for arc centre C with incorrect radius	For arc, measure radius using ruler. tolerance ± 2 mm and ± 2° for both constructions
			Correct region indicated	**1Dep**	Dependent on at least **B1** for bisector and **B2** for arc	
	(b)		accept any correct assumption e.g. Road[s] is not/are not straight, road AB is busier than road AC, land is not suitable for construction	**1**		If more than one choose the best one see list of exemplars

OCR GSCE – Tuesday 13 June 2017 – Paper 6 (Calculator) Higher Tier

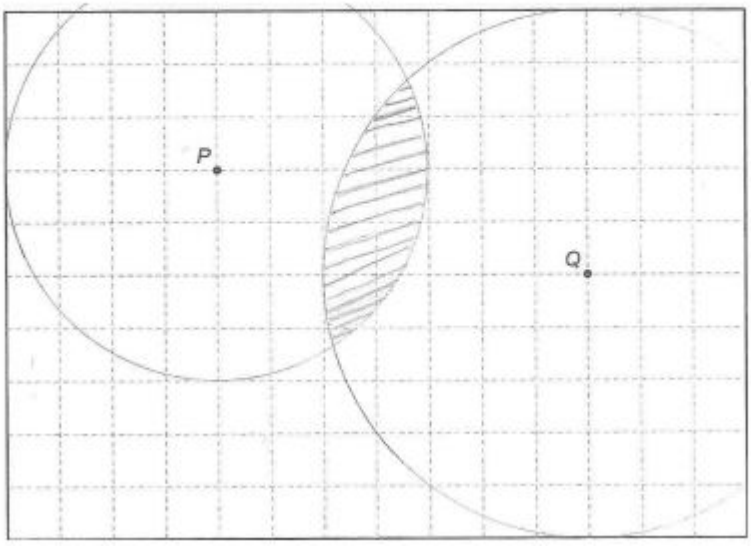
14.

2	**a**	**i**	9.6	**1** 1 AO1.3a		
		ii	2500	**1** 1 AO1.2		Condone 1 : 2500
	b		Arc centre B radius 6 cm meeting AB and CB or AB and bisector of ADC	**2**	**B1** for any arc centre B meeting AB and BC or short arc (at least 1cm) radius 6 cm centre B	Accept dashed or dotted for all marks Freehand, all within template, max **B1** Allow beyond AB and BC for 1 or 2 marks Tolerance 5.8 to 6.2 cm
			Ruled bisector of angle ADC to reach BC with construction arcs or Bisector with construction arcs from BC to *their* arc centre B	**2**	**B1** for correct ruled bisector at least 2cm long by eye with no construction arcs or correct construction arcs with no bisector drawn	Tolerance ± 2° Construction arcs on AD and on DC and two intersecting arcs from these
			Correct region shaded	**1** 1 AO2.3a 2 AO2.3b 1 AO3.1d 1 AO3.3	**Dep** on **B1** and **B1** If 0 scored **SC1** for 6 [cm] [= 150] [m] seen	

AQA GSCE – Thursday 7 June 2018 – Paper 2 (Calculator) Higher Tier

15.

	Arc radius [3.8, 4.2] cm centre *P* or arc radius [4.8, 5.2] cm centre *Q*	M1	only need arcs within tolerance for the correct region ignore other lines M1 arc radius [3.8, 4.2] cm centre *Q* and arc radius [4.8, 5.2] cm centre *P* and correct ft region identified
	Arc radius [3.8, 4.2] cm centre *P* and arc radius [4.8, 5.2] cm centre *Q* and region identified	A1	only need arcs within tolerance for the correct region ignore other lines

	Additional Guidance	
14	Arcs may go outside the rectangle	
	Allow any unambiguous indication of the region eg labelled R or appropriate shading	
	Do not accept highlighting the perimeter of the region for identification of the region	
		M1A1