KULLEĠĠ SAN BENEDITTU
Secondary School, Kirkop

HALF YEARLY EXAMINATION – 2016/2017

YEAR 9 CCP **MATHEMATICS** **MARKING SCHEME**

Aids for Marking of Scripts

Types of Marks

- **M**(ethod) marks are awarded for knowing a correct method of solution and attempting to apply it. Method marks cannot be lost for arithmetic mistakes. They can only be awarded if the method used would have led to the correct answer had not an arithmetic mistake been made. In general a correct method is implied by a correct answer and therefore **when a correct answer is given and no work is shown, no method marks are lost**.
- **A**(ccuracy) marks are given for correct answer only (c.a.o.) Incorrect answers, even though nearly correct, score no marks. Accuracy marks are also awarded for incorrect answers which are correctly followed through (f.t.) from an incorrect previous answer, **provided that f.t. is indicated in the mark scheme**. No method (M) or accuracy (A) marks are awarded when a wrong method leads to a correct answer.
- **B** marks are accuracy marks awarded for specific results or statements independent of the method used.

Misreading

M marks can still be earned (unless that part of the question is trivialized) but the final A marks are lost.

Crossed out working

An answer or working that is crossed out and not replaced is marked as if it were not crossed out. If the answer or working is replaced, then the crossed out answer or working is ignored and should not be considered for marking.

Units

In general, missing or inaccurate units are not penalised unless otherwise indicated in the mark scheme.

Other

- Incorrect working or statements following a correct answer are ignored.
- Marks are not sub-divisible; no half marks may be awarded.
- Other abbreviations used:
  - o.e. (or equivalent)
  - e.e.o.o. (each error or omission)
- Markers are advised to indicate the M, A or B marks awarded in the body of the script and then write their total in the margin. The total mark for each question should be written in the table included at the top of page 1 of the main paper. This measure facilitates the moderation of papers.

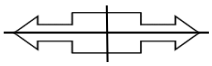
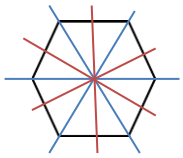
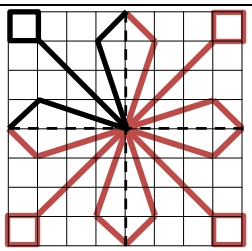
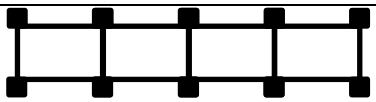
Non-Calculator Paper (25 marks)

Quest.		Requirements	Mark	Additional Guidance	
1	a)	East	B1		**4**
	b)	South	B1		
	c)	West	B1		
	d)	North	B1		
2	a)	468	B1		**6**
	b)	41	B1		
	c)	3300	B1		
	d)	20	B1		
	e)	54	B1		
	f)	740	B1		
3	a)	i. 53, 55, 57, 59, **<u>61</u>** , **<u>63</u>** ii. 65, 60, 55, 50, **<u>45</u>** , **<u>40</u>**	B1, B1 B1, B1		**6**
	b)		B1, B1		
4	a)	i) 739 ii) 8214	B1 B1		**5**
	b)	Nine thousand four hundred and six	B1 B1 B1		
5	a)	i) 30 ii) 900	B1 B1		**4**
	b)	900 × 30 = 27000	M1 A1 f.t.		

Main Paper (75 marks)

Quest.		Requirements	Mark	Additional Guidance	
1		315, 350, 417, 470, 1500	M1 M1 A1	Correct smallest number Correct largest number All correct	**3**

2	b)	14 – 5 = 9	M1 A1		**8**
	c)	9 × 10 = 90	M1 A1		
	d)	36 – 32 = 4 Add 4 or + 4	M1 A1		
	e)	46 ÷ 23 = 2 Multiply by 2 or ×2	M1 A1		
3	a)	63	B1		**3**
	b)	i. 194.54	B1		
		ii. 195	B1		
4		Attempt at adding 2650 grams	M2 A1		**3**
5	a)	35 × 2 = 70 cents €0.70 25 × 4 = 100 cents €1.00 TOTAL = €2.90	M1 M1 A1 M1 M1 A1 A1	f.t. for working above	**9**
	b)	€5.00 - €2.90 = €2.10	M1 A1	f.t for answer in (a)	
6		Right-angled triangle , rectangle, Square, Isosceles triangle	B1, B1 B1, B1		**4**
7	a)	8, 12, 14, 6	B3	(– 1 e.e.o.o.)	**12**
	b)	11	B1		
	c)	3, 5	B1, B1	(both correct)	
	d)	14	B1		
	e)	15 – 3 = 12	M1 M1 A1		
	f)	5 +3 – 8 or 3 + 8 – 11 or 3 + 12 – 15 or 5 + 6 – 11 or 8 + 6 – 14	M1 A1	Accept other valid answers	

8	a)	Circle, constructed using compass, seen at centre O Correct radius	M1 A1		**8**
	b)	i) drawing and labelling of radius	M1 A1		
		ii) drawing and labelling of diameter	M1 A1		
		iii) Correct arrow	B1		
	c)	10 cm	B1		
9	a)	Correct matching of shapes	B1 B1 B1	(– 1 e. e. o. o.)	**10**
	b)	i) **6** faces, **12** edges, **8** vertices ii) **3** faces, **2** edges, **0** vertices	B1 B1 B1 B1 B1 B1		
	c)	Cuboid	B1		
10	a)		B1 B1		**9**
		 Horizontal and Vertical lines 2 Diagonals though vertices Other 2 lines	 B1 B1 B1		
	b)	Two	B1		
	c)		B3	B1 for every finished quadrant	
11	a)		B2	Award B1 for 4 white rectangles, B2 for correct pattern.	**6**
	b)	2	B1		
	c)	1	B1		
	d)	14 black squares, 6 white rectangles	B1 B1		