KULLEĠĠ SAN BENEDITTU
Secondary School, Kirkop

CCP

HALF YEARLY EXAMINATION – 2017/2018

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

Notes for Marking of Scripts

Types of Marks

Method 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. Unless otherwise stated, any valid method not specified in the marking scheme is to be accepted and marked accordingly.

There are two types of Method marks, **M** marks and **(M)** marks.

- **M marks**, are only awarded if method is seen.
- **(M) marks** are awarded even when a correct answer is given and no work is shown.

There are two types of Accuracy marks, **A** marks and **B** marks.

- **A** marks are accuracy marks 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 marking scheme**.
  - No Method marks **M/(M)** or Accuracy marks **A**, are awarded when a wrong method leads to a correct answer.
  - When a question is assigned **M** and **A** marks and students present a correct answer without any working, only **A** marks are awarded.
- **B** marks are accuracy marks awarded for specific results or statements independent of the method used.

Misreading

Method marks can still be earned (unless that part of the question is trivialized) but the final Accuracy 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.

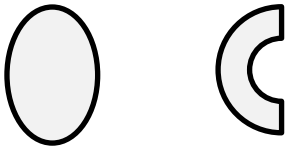
Units

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

Other

- Incorrect working or statement following a correct answer is 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, (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	Total
1	a)	78, 101	B1 B1	−1 e.e.o.o.	8
	b)	14, 79	B1 B1	−1 e.e.o.o.	
	c)	56, 80	B1 B1	−1 e.e.o.o.	
	d)	2, 7	B1 B1	−1 e.e.o.o.	
	a)	62,000	B1		6
	b)	293	B1		
	c)	2068	(M1) A1	M1 for attempting to add	
	d)	262	(M1) A1	M1 for attempting to subtract	
3		500	B1		1
4	a)		B1 B1	Do not penalise if size of arrow is different. B1for each correct arrow	4
	b)		B1 B1	−1 e.e.o.o.	
5	a)	150 × 4 Attempt at working multiplication 600	M1 (M1) A1		6
	b)	200 ÷ 4 Attempt at working division 50	M1 (M1) A1		

Main Paper (75 marks)

Quest.		Requirements	Mark	Additional Guidance	Total
1	a)	23, 28, 33	B3	−1 e.e.o.o.	5
	b)	Add 5	B2		
2	a)	Smallest number – 168 Largest number – 493 All correct: 168, 186, 409, 439, 493	M1 M1 A1	All other numbers correct	10
	b)	Largest number – 2500 correct Smallest number – 20 correct All correct: 2500, 2050, 205, 25, 20	M1 M1 A1	All other numbers correct	
	c)	9526	B2	B1 for every two correct digits	
	d)	Seven thousand, five hundred and forty three	B2	Award B1 for partially correct answer Ignore spelling mistakes	

3	a)	Vertical line of symmetry	B1		4
	b)	Horizontal line of symmetry	B1		
	c)	4 lines of symmetry	B2	B1 for every 2 correct lines of symmetry	
4		Odd – 23, 31, 95 Even – 50	B3 B1	−1 e.e.o.o.	4
5		Cuboid, 6, 8 5, 8, 5 Cube, 6, 12	B3 B3 B3	−1 e.e.o.o. −1 e.e.o.o. −1 e.e.o.o.	9
6	a)	ii) Student marks 35 correctly iii) Student marks 48 correctly	B1 B1		7
	b)	ii) 40 iii) 50	B1 B1	f.t. f.t.	
	c)	i) 153 × 2.7	B2		
		ii) 400	B1		
7		Student draws 4 more right-angled triangles showing s/he knows the meaning of tessellation	B4	−1 e.e.o.o.	4
8	a)	€2.10 × 2 €4.20 €7.29 + €3.45 + €4.20 €14.94	(M1) (M1) M2 A1		8
	b)	€10 × 2 = €20 €20 − €14.94 €5.06	(M1) M1 A1	f.t.	
9	a)	Radius 4.5 cm (± 0.1 cm) Circle constructed	M1 A2	Give A1 if construction is not neat.	7
	b)	9 cm (± 0.2 cm)	B2		
	c)	i) Labelling of centre with O ii) Labelling of circumference with arrow	B1 B1		
10	a)	ii) South or S iii) North East or NE	B2 B2		8
	b)	i) Star drawn north of  ii) Spaceship drawn south west of 	B2 B2		
11	a)	i) equilateral triangle ii) rectangle iii) isosceles triangle	B1 B1 B1		9
	b)	i) True ii) False iii) True	B2 B2 B2		