



KULLEGG SAN BENEDITTU Secondary School, Kirkop

HALF YEARLY EXAMINATION – 2016/2017

FORM 4 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)

No.	Answers							Marks	Total														
1	<table><tr><td><i>Millions</i></td><td><i>100 Thsnd</i></td><td><i>10 Thsnd</i></td><td><i>Thsnd</i></td><td><i>Hundred</i></td><td><i>Tens</i></td><td><i>Units</i></td></tr><tr><td></td><td>7</td><td>2</td><td>8</td><td>6</td><td>0</td><td>9</td></tr></table>							<i>Millions</i>	<i>100 Thsnd</i>	<i>10 Thsnd</i>	<i>Thsnd</i>	<i>Hundred</i>	<i>Tens</i>	<i>Units</i>		7	2	8	6	0	9	B3 (-1 e.e.o.o)	3
	<i>Millions</i>	<i>100 Thsnd</i>	<i>10 Thsnd</i>	<i>Thsnd</i>	<i>Hundred</i>	<i>Tens</i>	<i>Units</i>																
	7	2	8	6	0	9																	
2	€7.20 × 8 €57.60							M1 A1	2														
3	2.75 kg × 1000 2750 grams							M1 A1	2														
4	116							B1	1														
5	$\frac{6}{16} - \frac{5}{16}$ $\frac{1}{16}$							M1 M1 A1	3														
6	a) 24, , 42, 60 b) 30, 24							B1 B1 B1 B1 B1	5														
7	-6 0 9							B1 B1 B1	3														
8	8 hours							M1 A1	2														
9	a) 4 whole weeks b) Friday c) 5 Sundays d) 11 th May 2011 or 11/05/2011 or 11							B1 B1 B1 B1	4														

MAIN PAPER (75 marks)

No.	Answers		Marks	Total
1.	a)	One thousand and two euro and thirty five cent	B2 (-1 e.e.o.o.)	4
	b)	2080	B2	
2.	a)	i. 2000 ii. 200 iii. 10,000	B1 B1 B1	7
	b)	$\frac{2000 \times 200}{10000}$ seen or implied 40	M1 A1	
	c)	36.69 37	B1 A1	
3.	a)	$\frac{3}{7}$	B1	4
	b)	$\frac{1}{8}$	B1	
	c)	$\frac{3}{6} = \frac{1}{2}$	B1, B1	
4.		80 mm, 35 mm 0.62 m, 0.78 m	B1, B1 B1, B1	4
5.	a)	i. €22 ii. €25 iii. €26	M1 A1 M1 A1 M1 A1	7
	b)	€26	B1	
6.	a)	i) 8, 18, 23 ii) 100, 80, 60	B2 (-1 e.e.o.o.) B3	9
	b)	i) 5, add 5 to the previous term ii) Start with 88 then subtract 3 from the previous term	B1, B1 B1, B1	

7.	a)	25×60 $= 1500 \text{ m}^2$	M1 A1	4
	b)	$1500 \div 2$ $= 750 \text{ m}^2$	M1 A1 f.t.	
8.	a)	1390, 2390, 2908, 2980	B1 for smallest B1 for largest B1 for the rest	9
	b)	0.091, 1.046, 1.346, 3.091	B1 for smallest B1 for largest B1 for the rest	
	c)	0.09, 0.099, 0.89, 1.05	B1 for smallest B1 for largest B1 for the rest	
9.	a)	6.50×2 (seen or implied) €13	M1 A1	12
	b)	Adding all items €37.61	M1 A1	
	c)	€50 - €37.61 (seen or implied) €12.39	M1 A1	
	d)	i. 25% of 49.72 €12.43 ii. $49.72 - 12.43$ (seen or implied) €37.29	M2 A1 M2 A1	
10.		$2017 - 28$ (seen or implied) 1989	M2 A1	3
11.	a)	21.5 cm 10.9 cm	B1 B1	12
	b)	i. $215 + 215 + 109 + 109$ (seen or implied) 648 mm ii. 64.8 cm	M2 A2 B2	
	c)	215×109 (seen or implied) 23,435	M2 A2	