

KULLEĠĠ SAN BENEDITTU

Secondary School, Kirkop

Level

5 – 7

HALF YEARLY EXAMINATION – 2015/2016

YEAR 7

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 (Total: 25 Marks)

Ques.		Requirements	Mark		Additional guidance
1.	a.	461	B1	5	
	b.	33	B1		
	c.	4500	B1		
	d.	375	B1		
	e.	890	B1		
2.	a.	$\frac{2}{5}$	B2	4	
	b.	40, 40%	B1, B1		
3.	a.	5 tens / 50 (o.e)	B1	3	
	b.	314	B1		
	c.	Four hundred and eighty-seven	B1		
4.		Listing even numbers smaller than 20	M1	3	
		Listing multiples of 7	M1		
		14	A1		
5.	a.	6	B1	4	
		$6 + 1 + 6 + 3 + 4 = 20$	M1		
	b.	$\frac{20}{5}$	M1		
		4	A1		
6.	a.	7, 16	B1	2	Both correct
	b.	16, 32	B1		Both correct
7.	a.	100°	B1	2	
	b.	obtuse	B1		
8		$34 \cdot 2$, $34 \cdot 7$, $43 \cdot 5$, $54 \cdot 5$	M1 A1	2	First number correct

MAIN PAPER (Total: 75 Marks)

Ques.		Requirements	Mark		Additional guidance
1.	a.	Correct shading	B1	3	
	b.	Correct shading	B1		
	c.	$\frac{5}{8}$	B1		
2.		4, 8, 16, 20.	B2	2	1 mark for every 2 correct answers
3.	a.	$0.45 \times 2 = 0.90$	M1 A1	6	
		$0.90 \times 5 = 4.50$	M1 A1		
		Total cost = €0.90 + €4.50 = €5.40	A1		f.t.
	b.	Yes. Any valid reason	A1		
4.		Correct Labelling	B4	4	1 mark for each correct placing
5.		45° ($\pm 2^\circ$) 125° ($\pm 2^\circ$)	B2 B2	4	
6.	a.	Correct marking of minute hand. Hour hand between 8 and 9.	B1 B1	4	
	b.	Correct marking of minute hand. Hour hand between 9 and 10.	B1 B1		
7.	a.	16 : 15	B1	3	
	b.	13 : 20	B1		
	c.	08 : 30	B1		
8.		Correct plotting STAR	B8 B1	9	(-1 e.e.o.o.)
9.	a.	Any number from 12, 14, 16, 18, 20.	B1	5	
	b.	Any number from 11, 13, 15, 17, 19	B1		
	c.	16	B1		
	d.	12	B1		
	e.	Any number from 11, 13, 17, 19.	B1		

10.	a. b. c.	Acute angle Obtuse angle Right angle	B1 B1 B1	3	
11.	a. b.	230 60	B1 B1	2	
12.	a.	Football 8 Volleyball 10 Netball 5 Handball 7	B1 B1 B1 B1	8	Tally and Frequency table correct
	b.		B1		f.t.
			B1		f.t.
			B1		f.t.
			B1		f.t.
13.	a.	Correct Pattern	B5	6	
	b.	13 dots	B1		f.t.
14.	a.	7kg	M1 A1	6	
	b.	14 cent	M1 A1		
	c.	20 cupcakes	M1 A1		
15.	a.	2500	B1	3	
	b.	37.5	B1		
	c.	460	B1		
16.		13	B1	3	
		11	B1		
		9	B1		
17.	a.	5 times	B1	4	
	b.	$€6 \times 5 = €30$	M1 A1		
	c.	5	B1		