

Annual Examinations for Secondary Schools 2014

FORM 1

MATHEMATICS

MARKING SCHEME

Notes 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 marking 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 was 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.


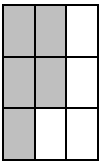
Units

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, 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

No.	Answers	Marks	Level	Total									
1.	$3 + 4 + 6 = 13$ flowers	M1 M1 A1	4	3									
2.	$11 - 3 = 8$ ice creams	M1 A1	5	2									
3.	a) 6	B1	4	3									
	b) 4	B1	4										
	c) 16	B1	5										
4.	Correct matching	B2 (for 3 correct matches) B1 (for 1 correct match)	4	2									
5.	a) Valid attempt at addition 145c (o.e.)	M1 A1	5	3									
	b) Yes	B1 f.t.											
6.	a) cm	B1	5	2									
	b) g	B1											
7.	a) 5.9	M1 A1	5	4									
	b) 6.13	M1 A1											
8.	a) i)  ii) 	B1 B1	4	3									
	b) i) subtract 10 each time	B1											
9.	Valid attempt at finding missing numbers <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr><td>4</td><td>3</td><td>8</td></tr> <tr><td>9</td><td>5</td><td>1</td></tr> <tr><td>2</td><td>7</td><td>6</td></tr> </table>	4	3	8	9	5	1	2	7	6	M2 A1	4	3
4	3	8											
9	5	1											
2	7	6											
TOTAL : 25 MARKS													

Main Paper

No.		Answers	Marks	Level	Total
1.	a)	i) 7 grey stars ii) 6 black stars	B1 B1	4	5
	b)	more	B1		
	c)	7 + 6 (seen or implied) 13 stars	M1 A1 f.t.		
2.	a)	5	B1	4	4
	b)	5 Attempt at dividing by 5 (seen or implied) 1	M1 M1 A1		
3.		Three tens + five units = thirty five	M1 M1 A1	4/5	3
4.	a)	3 groups of 5 circled and 1 teddy bear left over	M2 M1 (for 1 or 2 groups circled)	4	5
	b)	3, 15 16	M1 M1 A1	5	
5.	a)	i) 8 ii) 3 marked correctly on number line	B1 B1	4	8
	b)	Valid attempt at subtraction -5	M1 A1	5	
	c)	11, 13	B1 B1	4	
	d)	0, 3, 8, 12, 19	B1 for correct smallest number B1 if also all other numbers correct		
6.	a)	2 clocks showing 4 o'clock selected	B2 (-1 e.e.o.o.)	4	4
	b)	Hour hand drawn correctly Minute hand drawn correctly	M1 A1		
7.	a)	on top of	B1	4	2
	b)	in front of	B1		
8.	a)	8 cm $8 \times 10 = 80$ mm	M1 M1 A1 f.t.	5	5
	b)	Valid attempt at drawing 90° Correct drawing of $90^\circ (\pm 2^\circ)$	M1 A1	5	
9.	a)	True	B1	4	3
	b)	True	B1	5	
	c)	False	B1	5	
10.	a)	3, 4	B1 B1	4	5
	b)	Correct joining of points	B1	4	
	c)	i) triangle ii) B	B1 B1	5	

11.		<table border="1"> <thead> <tr> <th>Shape</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Circle</td> <td>1</td> </tr> <tr> <td>Triangle</td> <td>2</td> </tr> <tr> <td>Rectangle</td> <td>5</td> </tr> <tr> <td>Square</td> <td>4</td> </tr> <tr> <td>Total</td> <td>12</td> </tr> </tbody> </table>	Shape	Number	Circle	1	Triangle	2	Rectangle	5	Square	4	Total	12	B4 (-1 e.e.o.o.)	4/5	4
Shape	Number																
Circle	1																
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12.	a)	<table border="1"> <thead> <tr> <th>Coin</th> <th>20c</th> <th>10c</th> <th>5c</th> <th>2c</th> </tr> </thead> <tbody> <tr> <td>Number of coins</td> <td>6</td> <td>2</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	Coin	20c	10c	5c	2c	Number of coins	6	2	4	4	B3 (-1 e.e.o.o.)	4	7		
Coin	20c	10c	5c	2c													
Number of coins	6	2	4	4													
	b)	20c	B1	4													
	c)	False	B1	5													
	d)	Valid attempt at completing bar chart Completing bar chart correctly	M1 f.t. A1	4													
13.	a)	i) 3D ii) 2D	B1 B1	5	4												
	b)	Correct matching	B2 for 3 correct matches B1 for 1 correct match	4/5													
14.	a)	Valid attempt at finding volume 13	M1 A1	5	8												
	b)	$4 + 2 + 4 + 2 = 12$	M1 A1	5													
	c)	i) 8 ii) Valid attempt at finding area of shape B 8 iii) equal to	B1 M1 A1 B1 f.t.	4 5 4													
15.	a)	Two correct diagrams selected	B1 B1	5	4												
	b)	Valid attempt at dividing shape in two equal parts $\frac{1}{2}$ of the shape shaded correctly	M1 A1	4													
16.	a)	i) True ii) False	B1 B1	5 5	4												
	b)	$200 \div 2 = 100$ seen ii) $a = 100$	M1 A1	5													
TOTAL : 75 MARKS																	