



Annual Examinations for Middle Schools 2025

YEAR 7

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 trivialised) 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

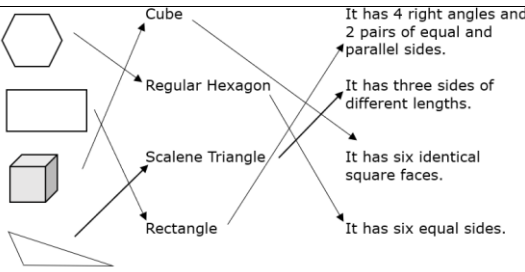
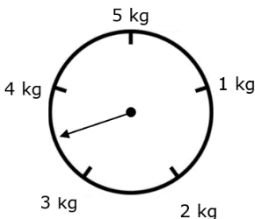
- Incorrect working or statement following a correct answer is ignored.
- Marks are not sub-divisible; no half marks may be awarded.
- Other abbreviations used:
 - o.e. (or equivalent)
 - e.e.o.o. (each error or omission)
- Markers are advised to indicate the M, (M), A or B marks awarded in the body 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.

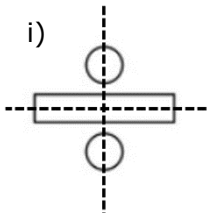
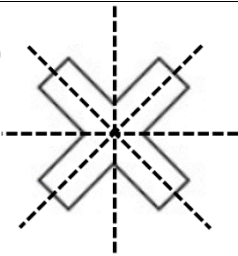
NON-CALCULATOR PAPER (20 marks)

Questions 1-10 (1 mark each) and questions 11-15 (2 marks each)

Que.	Requirements	Mark		Additional Guidance
1	21.89	B1	1	
2	1230	B1	1	
3	<	B1	1	
4	1	B1	1	
5	68	B1	1	
6	15	B1	1	
7	8	B1	1	
8	7	B1	1	
9	5.75	B1	1	
10	Any 2 sectors shaded	B1	1	
11	16×4 64	(M)1 A1	2	
12	8.0, ..., 8.6	B1 B1	2	Accept 8, ..., 8.6
13	$\frac{6}{12} = \frac{1}{2}$	(M)1 A1	2	
14	10.5×3 31.5	(M)1 A1	2	
15	$24 - 7$ 17	(M)1 A1	2	

MAIN PAPER (80 marks)

Que.	Requirements		Mark	Additional Guidance																	
1	a)	i) 110 ii) 800	B1 B1	4	M1 for identifying smallest or largest A1 all correct																
	b)	107, 175 217, 270, 735	M1 A1																		
2	a)		B6	9	-1 e.e.o.o																
	b)	6 , 12 , 8	B3	-1 e.e.o.o																	
3		An odd number → Impossible A multiple of 5 → Certain The number 12 → Evens A whole number → Unlikely	B4	4	-1 e.e.o.o																
4	a)	i) 4.5 , 5.3 ii) 	B1 B1 B1	5																	
	b)	68 – 18 = 50	(M)1 A1																		
5	a)	<table><tr><th>Amount</th><th>Price</th></tr><tr><td>5 kg</td><td>€7.25</td></tr><tr><td>3.5 kg</td><td>€5.25</td></tr><tr><td>8 kg</td><td>€8.80</td></tr><tr><td>6 kg</td><td>€9.00</td></tr><tr><td>4 kg</td><td>€8.00</td></tr><tr><td>3 kg</td><td>€3.00</td></tr><tr><td>29.5 kg</td><td>€41.30</td></tr></table>	Amount	Price	5 kg	€7.25	3.5 kg	€5.25	8 kg	€8.80	6 kg	€9.00	4 kg	€8.00	3 kg	€3.00	29.5 kg	€41.30	B5	9	-1 e.e.o.o
	Amount	Price																			
5 kg	€7.25																				
3.5 kg	€5.25																				
8 kg	€8.80																				
6 kg	€9.00																				
4 kg	€8.00																				
3 kg	€3.00																				
29.5 kg	€41.30																				
b)	i) €46.30 ii) 29.5 × 2 = 59 59 × 4 = 236 kg	A1 M1 M1 A1	f.t. from a) f.t. from a)																		

6	a)	i)  ii) 	B2 B3	7	-1 e.e.o.o.												
	b)	A and M	B1		Both correct												
	c)	5, down	B1		Both correct												
7	a)	i) ten past seven in the morning ii) 7:50 a.m. iii) $60 + 15 = 75$ minutes	B1 B1 (M)1 A1	8	Accept 7:50												
	b)	i) Friday ii) 5 iii) $1.5 \times 5 = 7.5$ hr 7 hr 30 min	B1 B1 M1 A1														
8	a)	(3 , 2)	B1	5													
	b)	Correct plotting of points	B3		-1 e.e.o.o.												
	c)	Pentagon	B1														
9	a)	45°	B1	7													
	b)	Correct drawing of angle	B1		$\pm 2^\circ$												
	c)	i) isosceles ii) $180^\circ - 40^\circ = 140^\circ$ $140^\circ \div 2 = 70^\circ$ iii) $P = 11.5 + 11.5 + 8$ $= 31$ cm	B1 M1 A1 M1 A1														
10	a)	$28 - 22 = 6$	(M)1 A1	6													
	b)	Washing the dishes	B1														
	c)	Correct bar chart	B3		-1 e.e.o.o.												
11	a)	<table><thead><tr><th>Fraction</th><th>Decimal</th><th>Percentage</th></tr></thead><tbody><tr><td>$\frac{1}{2}$</td><td>0.5</td><td>50%</td></tr><tr><td>$\frac{1}{4}$</td><td>0.25</td><td>25%</td></tr><tr><td>$\frac{3}{4}$</td><td>0.75</td><td>75%</td></tr></tbody></table>	Fraction	Decimal	Percentage	$\frac{1}{2}$	0.5	50%	$\frac{1}{4}$	0.25	25%	$\frac{3}{4}$	0.75	75%	B6	11	-1 e.e.o.o.
	Fraction	Decimal	Percentage														
$\frac{1}{2}$	0.5	50%															
$\frac{1}{4}$	0.25	25%															
$\frac{3}{4}$	0.75	75%															
b)	i) $\frac{3}{20} \times 240 = 36$ ii) 120 iii) $240 - 156 = 84$	M1 A1 B1 (M)1 A1	f.t. from i) and ii)														
12	a)	A of rectangle = $15 \times 5 = 75$	M1 A1	5	f.t. from a) and b)												
	b)	A of square = $5 \times 5 = 25$	M1 A1														
	c)	Total A = 100 cm^2	A1														