



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

**GAUTENG DEPARTMENT OF EDUCATION  
PROVINCIAL EXAMINATION  
JUNE 2018  
GRADE 6**

**MATHEMATICS**

**MEMORANDUM**

**9 pages**

GAUTENG DEPARTMENT OF EDUCATION  
PROVINCIAL EXAMINATION

## MATHEMATICS

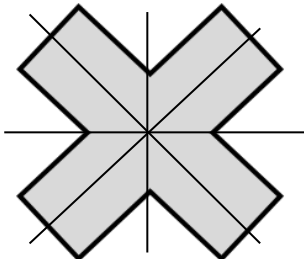
**General marking note:**

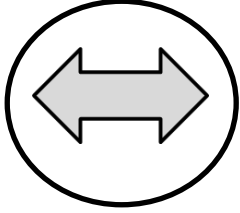
1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative, correct solution that is not included in the memorandum.
3. CA refers to consistent accuracy. See clarification in Question 3.3.



QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
1	1.1	C✓	1	10
	1.2	C✓	1	
	1.3	D✓	1	
	1.4	B✓	1	
	1.5	B✓	1	
	1.6	A✓	1	
	1.7	D✓	1	
	1.8	D✓	1	
	1.9	A✓	1	
	1.10	A✓	1	
2	$  \begin{array}{r}  487\ 356 \\  +256\ 103 \\  \hline  743\ 459 \\  \checkmark \quad \checkmark  \end{array}  $	Correct answer: 2 marks  743: 1 mark 459: 1 mark  Accept any other alternative correct method.	2	



QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
2.5	$= \frac{4}{15} + \frac{9}{15} \checkmark$ $= \frac{13}{15} \checkmark$	Correct answer: 2 marks  $\frac{9}{15}$ : 1 mark  $\frac{13}{15}$ : 1 mark  Apply CA	2	
2.6	$= 2\frac{1}{4} - \frac{3}{4} \checkmark$ $= 1\frac{2}{4} \checkmark \text{ or } 1\frac{1}{2}$ <p>or:</p> $= \frac{13}{4} - \frac{7}{4} \checkmark$ $= \frac{6}{4} \checkmark \text{ OR } 1\frac{2}{4} \text{ OR } 1\frac{1}{2} \text{ OR } \frac{3}{2}$	Correct answer: 2 marks  Subtracting the whole numbers: 1 mark  Subtracting the fractions: 1 mark  OR  Convert to improper fractions: 1 mark  Correctly subtract: 1 mark  Accept any other alternative correct method, and any answer that is equivalent  Apply CA	2	
2.7	$= 450 \div 10 \times 7$ $= 45 \times 7 \checkmark$ $= 315 \checkmark$	Correct answer: 2 marks  Divide by 10 : 1 mark  Multiply by 7 : 1 mark  Apply CA	2	

QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL	
2.8	$\begin{array}{r} 34,25 \\ + 4,5 \\ \hline 38,75 \end{array}$	<p>Correct answer: 2 marks</p> <p>Correct place value: 1 mark</p> <p>38,75 : 1 mark</p> <p>No marks to be awarded for the final answer if there is no comma</p>	2		
2.9	95 ✓ %	<p>95 : 1 mark</p> <p>Do not penalize the learner for not writing the % sign</p>	1		
2.10	<p>= 15 + 10 ✓ × 10</p> <p>= 115 ✓</p>	<p>Correct answer: 2 marks</p> <p>Answering the bracket first: 1 mark</p> <p>115: 1 mark</p> <p>Accept any alternative correct method</p>	2	21	
3	3.1	< ✓	1		
	3.2	= ✓	1		
	3.3	> ✓	1	3	
4	4.1	<p>4 ✓</p> <p>OR</p> 	<p>4 : 1 mark</p> <p>Award the mark if learners have drawn the lines of symmetry instead of writing the number of lines</p>	1	2

QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
4.2	 ✓	The double sided arrow circled: 1 mark  No marks if any other shape is circled	1	
5	Rectangular prism ✓ 6 ✓ 8 ✓	Name - Rectangular prism : 1 mark  6 faces : 1 mark  8 vertices : 1 mark		3
6	6.1	Pentagon ✓	1	3
	6.2	A – Obtuse ✓  B – Acute ✓	2	
7	7.1	<b>Rectangles have right angles,</b> ✓ Parallelograms have acute and obtuse angles  OR  <b>Rectangles have 4 equal angles,</b> ✓ parallelograms have opposite angles which are equal	Accept any alternative correct answer	1
	7.2	They are both <b>quadrilaterals</b> (have 4 sides) ✓  OR  They both have <b>opposite sides equal</b> ✓  OR  They both have <b>opposite angles equal</b> ✓	Accept any alternative correct answer	1
				2

QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
8	8.1	2 ✓ Litres	2 : 1 mark	3
	8.2	14 200 ✓ Litres	14 200 : 1 mark	
	8.3	345 ✓ minutes	345 : 1 mark	
9	9.1	2 800 ml ✓ - 1 500 ml = 1 300 ml ✓  OR  2,8 l - 1,5 l ✓ = 1,3 l ✓	Correct answer: 2 marks  Converting so that the units are the same : 1 mark  1,3 l or 1 300 ml : 1 mark	4
	9.2	340 years - 300 years ✓ = 40 ✓ years	Converting to years : 1 mark  40 years : 1 mark  Accept any alternative correct method  Apply CA	
10	10.1	2 ✓ hours		3
	10.2	6 pm ✓ OR 18:00		
	10.3	Sudan ✓		
11		21 ✓		1
12	12.1	 ✓ OR Square/Rectangle	Accept the drawing or name of the shape	2
	12.2	 ✓ OR Triangle	Accept the drawing or name of the shape	

<b>MEMORANDUM</b>	<b>MATHEMATICS GRADE 6</b>
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QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL								
13	13.1	5 ✓	1	3								
	13.2	36 ✓	1									
	13.3	House number 6 ✓	1									
14	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Grade</th> <th style="width: 35%;">Tally</th> <th style="width: 50%;">Frequency</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">           </td> <td style="text-align: center;">12 ✓</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">          ✓</td> <td style="text-align: center;">9</td> </tr> </tbody> </table>	Grade	Tally	Frequency	6		12 ✓	7	✓	9	12 : 1 mark <del>    </del>      : 1 mark	2
Grade	Tally	Frequency										
6		12 ✓										
7	✓	9										
15	15.1	Elijah ✓	1	4								
	15.2	16 ✓ Hours	1									
	15.3	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 10px;">Sports ✓</div> <div style="text-align: center;"> <p>Time spent by Zak</p> <p>School</p> </div> <div style="border: 1px solid black; padding: 2px; margin-left: 10px;">Homework ✓</div> </div>	2									
16	+1 ✓ 16 ✓			2								
17	120 km : 60 minutes ✓ 2 km : 1 minute 1 km : 30 seconds  OR 1000 metres	Correct answer : 2 marks  Convert hour into minutes or attempt a T table or rate calculation : 1 mark  1 km or 1 000 m: 1 mark		2								



QUESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
18	$8 \times R5,50 = R44 \checkmark$ $R44 - R15 \checkmark = R29 \checkmark$	Correct answer: 2 marks  Calculate total for a box : 1 mark Subtract R15 : 1 mark R29 : 1 mark  Accept any alternative correct method  Apply CA		3
19	$21 \checkmark$ and $33 \checkmark$			2
			<b>TOTAL:</b>	<b>75</b>