



GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

**GAUTENG DEPARTMENT OF EDUCATION
PROVINCIAL EXAMINATION
NOVEMBER 2020
GRADE 6**

MATHEMATICS

MEMORANDUM

5 pages

General marking notes:

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 2.3.

QUESTION	EXPECTED ANSWER	CLARIFICATION	M A R K	TOTAL
1.	1.1	B	1	20
	1.2	D	1	
	1.3	A	1	
	1.4	C	1	
	1.5	D	1	
	1.6	B	1	
	1.7	C	1	
	1.8	A	1	
	1.9	D	1	
	1.10	B	1	
	1.11	C	1	
	1.12	D	1	
	1.13	A	1	
	1.14	D	1	
	1.15	B	1	
	1.16	D	1	
	1.17	A	1	
	1.18	B	1	
	1.19	C	1	
	1.20	D	1	
2.	2.1	$\begin{array}{r} 387\ 213 \\ + 299\ 114 \\ \hline 686\ 327 \\ \checkmark \quad \checkmark \end{array}$	<p>Correct answer: 2 marks</p> <p>327: 1 mark 686: 1 mark</p> <p>Accept any other alternative correct method.</p>	2

2.2	$\begin{array}{r} 602\ 887 \\ - 128\ 351 \\ \hline 474\ 536 \\ \checkmark \quad \checkmark \end{array}$	<p>Correct answer: 2 marks</p> <p>536: 1 mark 474: 1 mark</p> <p>Accept any other alternative correct method.</p>	2
2.3	$\begin{array}{r} 4\ 213 \\ \times 107 \\ \hline 29\ 491\ \checkmark \\ 0 \\ + 421\ 300\ \checkmark \\ \hline 450\ 791\ \checkmark \end{array}$ <p><u>Example of CA:</u></p> $\begin{array}{r} 4\ 213 \\ \times 107 \\ \hline 29\ 491\ \checkmark (4\ 213 \times 7 \text{ correct}) \\ 0 \\ + \underline{4\ 213} \ * (4\ 213 \times 100 \text{ incorrect}) \\ \hline 409\ 995\ \checkmark (\text{previous steps correctly added}) \end{array}$	<p>Correct answer: 3 marks</p> <p>29 491: 1 mark 421 300: 1 mark Correctly adding steps: 1 mark</p> <p>Apply CA</p> <p>Accept any other alternative correct method including Napier's Bones method.</p>	3
2.4	$\begin{array}{r} \quad \quad \checkmark \quad \checkmark \\ \quad \quad 3 \quad 4 \quad \text{Rem } 50\ \checkmark \\ 250 \overline{) 8\ 5\ 5\ 0} \\ - 7\ 5\ 0 \\ \hline 1\ 0\ 5\ 0 \\ - 1\ 0\ 0\ 0 \\ \hline 5\ 0 \end{array}$	<p>Correct answer 3 marks</p> <p>3: 1 mark 4: 1 mark Remainder 50 : 1 mark</p> <p>Apply CA</p> <p>Accept any other alternative correct method.</p>	3
2.5	$\begin{aligned} 15 + 9 \times 2 - 9 \\ = 15 + 18\checkmark - 9 \\ = 24\checkmark \end{aligned}$	<p>Correct answer: 2 marks</p> <p>18: 1 mark 24: 1 mark</p>	2
2.6	$\begin{aligned} \frac{2}{9} + \frac{5}{9} \\ = \frac{7}{9}\checkmark \end{aligned}$		1

2.7	$\frac{1}{5} + \frac{5}{10}$ $= \frac{2}{10} \checkmark + \frac{5}{10}$ $= \frac{7}{10} \checkmark$	<p>Correct answer: 1 mark</p> <p>$\frac{2}{10}$: 1 mark (Or any equivalent fraction to make denominators equal). $\frac{7}{10}$: 1 mark</p>	2
2.8	$6\frac{3}{7} - 2\frac{4}{7}$ $= \frac{45}{7} - \frac{18}{7} \checkmark$ $= \frac{27}{7} \text{ OR } 3\frac{6}{7} \checkmark$ <p>OR</p> $= 4\frac{3}{7} - \frac{4}{7}$ $= 4\frac{3}{7} - \frac{4}{7}$ $= 3\frac{6}{7}$	<p>Correct answer: 2 marks</p> <p>Convert to improper fractions or subtract whole numbers: 1 mark</p> <p>$\frac{27}{7}$ OR $3\frac{6}{7}$: 1 mark</p>	2
2.9	$\frac{2}{3} \text{ or } 90$ $= 90 \div 3 \checkmark \times 2$ $= 60 \checkmark$	<p>Correct answer: 2 marks</p> <p>$\div 3$: 1 mark 60: 1 mark</p>	2
2.10	$\begin{array}{r} 15,09 \\ + 20,10 \\ \hline 35,19 \\ \checkmark \quad \checkmark \end{array}$	<p>Correct answer: 2 marks</p> <p>35 : 1 mark ,19: 1 mark</p> <p>No marks if the comma is not written.</p>	2

3.		<p>25 ml oil + 75 ml lemon juice = 100 ml sauce</p> <p>$1\ 000\text{ ml} \div 100\text{ ml} = 10$ $25 \times 10 \checkmark = 250\checkmark\text{ ml oil}$ $75 \times 10 = 750\checkmark\text{ ml lemon juice}$</p> <p>OR</p> <p>Oil : Lemon juice = Sauce $25 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix} \times 10 : 75 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix} \times 10 = 100 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix} \times 10\checkmark$ $250 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix} \quad 750 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix} = 1\ 000 \begin{matrix} \curvearrowright \\ \checkmark \end{matrix}$</p>	<p>Correct answer: 3 marks</p> <p>$1\ 000 \div 100 = 10:$ 1 mark 250: 1 mark 750: 1 mark</p>		3
4.	4.1	<p>R 1,20 $+ \text{R } 5,35$ $= \text{R } 6,55 \checkmark$</p> <p>R 10,00 $- \text{R } 6,55$ $\text{R } 3,45 \checkmark$ Change</p>	<p>Correct answer: 2 marks</p> <p>R6,55 : 1 mark R3,45 : 1 mark</p> <p>Apply CA</p>		2
	4.2	<p>$10\% \text{ of R}80 = \frac{10}{100} \text{ of } 80$ $= \text{R}8 \checkmark$ Discount It will cost R8 less</p>	R8 : 1 mark		1
5.	5.1	$16\text{ m} + 10\text{ m} + 16\text{ m} + 10\text{ m} = 52\text{ m} \checkmark$	Correct answer: 1 mark		1
	5.2	$16\text{ m} \times 20\text{ m} \checkmark = 320\checkmark\text{ m}^2$	<p>Correct answer: 2 marks</p> <p>$\times 20$: 1 mark 320: 1 mark</p>		2
TOTAL: 50					3