GRADE/ *GRAAD* 8

MATHEMATICS/ *WISKUNDE*

MARKING GUIDELINE/ *NASIENRIGLYN*

JUNE/ *JUNIE* 2026

MARKS/ *PUNTE*: 60

Marking guideline/ Nasienriglyn

- No half marks are awarded/ *Geen halwe punte word toegeken nie.*
- In the case where learners have used an alternative, but a mathematically correct method, the marks must be awarded to the learner/ *In die geval waar leerders 'n alternatiewe, maar wiskundige korrekte metode gebruik het, moet die punt aan die leerder toegeken word.*
- Penalise only ONCE for rounding mistakes/ *Penaliseer slegs EEN keer vir afrondingsfout.*
- **Marks for ALL sub-questions should be recorded in the Right-hand margin (of the paper) – even the zeroes/ *Punte vir ALLE sub-vrae moet aangedui word in die Regterkantse kantlyn (van die vraestel) – selfs die nulle!!***

M	Correct method/ Korrekte metode
A	Accurate calculation/ Akkurate bewerking
CA	Consistent accuracy/ Konsekwente akkuraatheid

Question/ Vraag 1:		Descriptors/ Beskrywers	Marks/ Punte	L
1.1	C ✓	A Answer	1	K
1.2	D ✓	A Answer	1	K
1.3	A ✓	A Answer	1	R
1.4	D ✓	A Answer	1	K
1.5	D ✓	A Answer	1	K
1.6	D ✓	A Answer	1	K
			[6]	
Question/ Vraag 2:		Descriptors/ Beskrywers	Marks/ Punte	L
2.1	Total parts : $4 + 7 + 1 = 12$ ✓ Aya: $\frac{7}{12} \times 120$ ✓= 70 apples ✓	A 12 CA $\frac{7}{12} \times 120$ CA Answer	3	R
2.2	$\sqrt{144} - (-3^2) + (-2)^4$ 12✓ +9 + 16 ✓ $= 37$ ✓ **OR/ OF** Step 1: $\sqrt{144} = 12$ ✓ Step 2: $(-3^2) = 9$ AND $(-2)^4 = 16$ ✓ Step 3: $12 + 9 + 16 = 37$ ✓	A 12 A 9 and 16 CA Answer	3	R

2.3	Team A: $-44 + 8 + 12 = -24$ For Eng: Team B: $10 + 0 - 35 = -25$ ✓ **For Afr:** Team B: $\mathbf{-10} + 0 - 35 = \mathbf{-45}$ **Team A /Span A**✓	A -24 and -25 or -45 (Afr) CA Conclusion Team A/ Span A **Answer only**: 0 marks	2	C
			[8]	
Question/ Vraag 3:		Descriptors/ Beskrywers	Marks/ Punte	L
3.1.1	$\left(\frac{7}{8}-\frac{10}{32}\right)\times\frac{4}{9}$ $=(\frac{28}{32}-\frac{10}{32})\times\frac{4}{9}$ ✓ $=\left(\frac{18}{32}\right)\times\frac{4}{9}$ ✓ $=\frac{2}{8}\ OR\ \frac{1}{4}$ ✓	A $\frac{28}{32}$ CA Simplify $\frac{18}{32}$ CA Answer **Answer Only – 1 mark**	3	R
3.1.2	$\frac{1}{4}+\frac{1}{5}+\frac{3}{6}$ $=\frac{15}{60}+\frac{12}{60}+\frac{30}{60}$ ✓ ✓ $=\frac{57}{60}$ ✓ **OR/ OF** $\frac{1}{4}+\frac{1}{5}+\frac{1}{2}$ $=\frac{5}{20}+\frac{4}{20}+\frac{10}{20}$ ✓ ✓ $=\frac{19}{20}$ ✓ **Travelling to work/ Reis na werk: $\frac{3}{60}\ OR\ \frac{1}{20}$** $=16\times 60min$ $=960min$ ✓ $960\ \text{min}\times\frac{1}{20}=48min$ ✓	A LCM/ *KGV* – 60 A Numerators/ Tellers CA Answer A LCM/ *KGV* - 20 A Numerators/ Tellers CA Answer A 960min CA Answer	5	C
3.2	$\frac{200}{250}\times 100$ ✓ $=80\%$ ✓ OR/ OF $\frac{50}{250}\times 100=20\%$ ✓ $100-20\%=80\%$ ✓	A $\frac{200}{250}\times 100$ CA 80% A $\frac{50}{250}\times 100$ CA 80%	2	R
			[10]	

Question/ Vraag 4:		Descriptors/ Beskrywers	Marks/ Punte	L
4.1.1	32 ; 37 ✓ ✓	A 32 A 37	2	K
4.1.2	**Add 5** to each term/ **Tel 5 by** elke term. ✓	A Add 5/ Tel 5 by	1	K
4.1.3	$T_{50} = 5(50) + 7$ ✓ $= 250 + 7$ $= 257$ ✓	A Sub 50 CA Answer	2	R
4.2	1000 ✓	A 1000	1	K
4.3	4 ✓	A 4	1	R
4.4.1	$y = 4x + 3$ ✓	A $4x + 3$ Accept/ Aanvaar: $y = 4n + 3$	1	K
4.4.2	$35 = 4x + 3$ ✓ $32 = 4x$ $x = 8 = A$ ✓	CA $35 = 4x + 3$ CA $A = x = 8$ **Answer Only: Full marks**	2	R
			[10]	

Question/ Vraag 5:			Descriptors/ Beskrywers	Marks/ Punte	L
5.1.1	$\frac{(4^2)^2}{4^8}$ $= \frac{4^4}{4^8}$✓ $= 4^{4-8}$ $= 4^{-4}$ ✓ **OR** $= \frac{4^4}{4^8}$ ✓ $= \frac{1}{4^4}$ ✓	**OR** $= \frac{2^8}{2^{16}}$ ✓ $= 2^{-8}$✓ OR $\frac{1}{2^8}$	A Simplify $\frac{4^4}{4^8}$ or $\frac{2^8}{2^{16}}$ CA Answer	2	R
5.1.2	$-3ab^3 \times -5a^3b^3$ $= 15a^4b^6$ ✓		A $15a^4b^6$	1	K

5.1.3	$(4xy)^0 \times \frac{(x^3y^2)^2}{xy^2}$ $= 1 \times \frac{x^6y^4}{xy^2}$ ✓ ✓ $= x^{6-1}y^{4-2}$ $= x^5y^2$ ✓	A $(4xy)^0 = \mathbf{1}$ A $\frac{x^6y^4}{xy^2}$ CA Answer	3	R
5.2	$(2^{29}.5^{29}).5^3$ ✓ $= (10^{29})125$ ✓ $= 10^{29} \times 1{,}25 \times 10^2$ $= 1{,}25 \times 10^{31}$	A Prime bases and exponent of 29 A Simplify $(10^{29})125$ A $1{,}25 \times 10^{31}$ **Answer Only**:**1 mark**	3	PS
			[9]	

Question/ Vraag 6:		Descriptors/ Beskrywers	Marks/ Punte	L
6.1.1	4 terms/ terme ✓	A 4	1	K
6.1.2	-1 ✓	A -1	1	K
6.1.3	7 ✓	A 7	1	K
6.2	$4x\left(\sqrt{9x^4}\right) - 3x\left(\sqrt[3]{-27x^6}\right)$ $= 4x(3x^2) - 3x(-3x^2)$ ✓ ✓ $= 12x^3 + 9x^3$ ✓ $= 21x^3$ ✓	A $4x(3x^2)$ A $-3x(-3x^2)$ CA Simplify CA Answer	4	C
6.3	$-2(2)^2 - (-3)$ ✓ $= -2(4) + 3$ $= -5$ ✓	A Sub (2) and (-3) CA Answer **Answer Only: Full marks**	2	R
			[9]	

Question/ Vraag 7:		Descriptors/ Beskrywers	Marks/ Punte	L
7.1.1	$4(x+5)=2(x-3)$ $4x+20=2x-6$ ✓ $2x=-26$ ✓ $x=-13$ ✓	A Simplify brackets: $4x+20=2x-6$ CA Simplify CA Answer	3	R
7.1.2	$\frac{-x}{9}=-2$ $-x=-18$ ✓ $x=18$ ✓	A $-x=-18$ CA Answer **Answer Only: FULL marks**	2	K
7.2	If John spends x/ Indien John x spandeer Sister spends $2x$ / Sy suster $2x$ spandeer✓ $x+2x=420$ ✓ $3x=420$ $x=140$ ✓ John spent R140 at the shop John het R140 by die winker spandeer	A $2x$ CA equation CA Answer	3	C
			[8]	
	TOTAL : 60			