education

Department of
Education
FREE STATE PROVINCE

GRADE / GRAAD 6

MATHEMATICS MOCK TEST

WISKUNDE OEFENTOETS

MARKS / PUNTE: 40

NOVEMBER 2025

MEMORANDUM

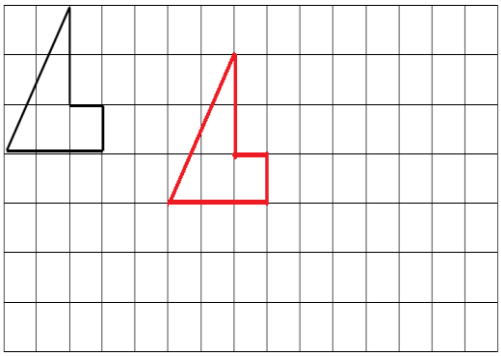
This memorandum consists of 4 pages.

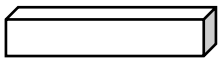
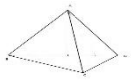
General marking note: Algemene merkriglyne

1. Give full marks for answers only, unless otherwise stated.
   Gee volpunte vir slegs antwoorde, indien nie anders vermeld nie
2. Accept any alternative correct solution that is not included in the memorandum.
   Aanvaar enige alternatiewe, korrekte antwoorde wat niein die memorandum ingesluit is nie.
3. CA - consistency accuracy. KA – kontinue akkuraatheid:
4. A -Accuracy. A - Akkuraatheid

QUESTION VRAAG	ANSWERS / ANTWOORDE	CLARIFICATION NOTES VERDUIDELIKING OPMERKINGS	MARKS PUNTE	COGNITIVE LEVEL KOGNITIE WE VLAK
QUESTION /VRAAG 1				
1.1	A✓	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	K
1.2	B ✓ /	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	RP
1.3	D ✓	1 punt: korrekte antwoord *1 punt: korrekte antwoord*	(1)	RP
1.4	C ✓	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	K
1.5	A ✓	1 punt: korrekte antwoord *1 punt: korrekte antwoord*	(1)	K
1.6	D ✓	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	RP
1.7	A✓	1 punt: korrekte antwoord *1 punt: korrekte antwoord*	(1)	CP / KP
1.8	D ✓	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	RP
1.9	C ✓	1 punt: korrekte antwoord *1 punt: korrekte antwoord*	(1)	RP
1.10	B ✓	1 mark: correct answer *1 punt: korrekte antwoord*	(1)	RP
				[10]
QUESTION / VRAAG 2				
2.1.1	402 257 ✓	1 marks for the correct answer note that any method is acceptable. *1 punt vir korrekte antwoord, enige metode is aanvaarbaar.*	(2)	RP
2.1.2		2 marks: correct method 1 mark: correct answer	(3)	RP

	4 3 7 8 x 1 9 7 3 0 6 4 6 3 9 4 0 2 0✓ 4 3 7 8 0 0✓ 86 3 4 6 6 ✓ CA /KA	Any other correct Mathematical accurate method acceptable. *CA may apply.* *2 punte: k,orrekte metode* *1 punt: korrekte antwoord.* *Enige ander, Wiskundig korrekte metode, is aanvaarbaar.* *KA mag toegepas word.*		
2.1.3	$5+(\frac{21}{28}+\frac{20}{28})$✓ $= 5\frac{41}{28} = 6\frac{13}{28}$ ✓	1 mark: successfully making the same denominator 1 mark : correct answer Any other correct Mathematical accurate method acceptable. *CA may apply* *1 punt: k,orrekte herleiding na dieselfde noemer.* *1 punt: korrekte antwoord.* *Enige ander, Wiskundig korrekte metode, is aanvaarbaar.* *KA mag toegepas word.*	(2)	RP
2.1.4	97,83 – 5,5✓ = 92,33✓	.1 mark conversion of common fraction to decimal fraction or correct conversion the common fraction to decimal fraction 1 mark: correct method 1 mark for correct answer Any other correct Mathematical accurate method acceptable. *CA may apply* *1 punt vir herleiding van egte breuk na desimale breuk of herleiding van desimale breuk na egte breuk.* *1 punt korrekte metode.* *1 punt: korrekte antwoord.* *Enige ander, Wiskundig korrekte metode, is aanvaarbaar.* *KA mag toegepas word.*	(3)	CP / *KP*
				[9]
QUESTION VRAAG 3				
3.1	Tiny squares *klein vierkante* = 8 Single squares *Enkel vierkante* =18 2 x 2 squares *vierkante* = 9 3 x 3 squares *vierkante* = 4 4 x 4 squares *vierkante* = 1 Total / *Totaal* = 40✓✓	2 marks for the correct answer only *2 punte vir die korrekte antwoord alleenlik.*	(2)	PS / *PO*

<table>
<tr>
<td>3.2</td>
<td>
<table>
<tr><th>Similarities</th><th>Differences</th></tr>
<tr><td>They are both quadrilaterals and both have 4 right angles
Hulle is albei vierhoeke en albei het 4 regte hoeke</td><td>All 4 sides of square are equal.
Only the opposite sides of the rectangle are equal in length.
Al 4 sye van die vierkant is gelyk.
Slegs die teenoorgestelde sye van die reghoek is ewe lank.</td></tr>
<tr><td></td><td></td></tr>
</table>
</td>
<td>1 mark: correct similarities.
mark: correct differences.
1 punt: korrekte ooreenkomste.
1 punt: korrekte verskille</td>
<td>(2)</td>
<td>K</td>
</tr>
<tr>
<td>3.3</td>
<td></td>
<td>1 mark: correct units down
1 punt: korrekte aantal eenhede af

1 mark: correct units to the right
1 punt: korrekte aantal eenhede nna regs</td>
<td>(2)</td>
<td>RP</td>
</tr>
<tr><td colspan="5">[6]</td></tr>
<tr><td colspan="5"></td></tr>
<tr><td colspan="5">QUESTION/ VRAAG 4</td></tr>
<tr>
<td>4.1.1</td>
<td>Rectangular prism / Reghoekige prisma✓
</td>
<td>1 mark for the correct drawing of 3-D object. Accept any correct answer
1 punt vir die korrekte tekening van 3D-voorwerp. Aanvaar enige korrekte antwoord</td>
<td>(1)</td>
<td>K</td>
</tr>
<tr>
<td>4.1.2</td>
<td>Triangular pyramid Driehoekige piramide (tetrahedron) ✓
</td>
<td>1 mark for the correct answer
1 punt: korrekte antwoord</td>
<td>(1)</td>
<td>K</td>
</tr>
<tr>
<td>4.2</td>
<td>Rule: Reël: x x 2 - 1✓
n = 8 ✓</td>
<td>1 mark for each correct answer</td>
<td>(3)</td>
<td>RP</td>
</tr>
</table>

	m=13 ✓	*1 punt vir elke korrekte antwoord.*		
4.3	90% of 40 = 36 ✓ 40-36 = 4✓	1 mark : finding the correct 90% of 40. *1 punt: bepaal 90% van 40* 1 mark: finding 'wrong' marks 1 punt: bepaal die verkeerde antwoord *CA may apply. KA mag toegepas word*	(2)	CP
4.4.1	14 hours / *ure* ✓	1 mark for the correct answer *1 punt: korrekte antwoord*	(1)	RP
4.4.2	4 hours /*ure* ✓	1 mark for the correct answer *1 punt: korrekte antwoord*	(1)	RP
				[9]

QUESTION 5

5.1	**Tally** ✓ / **Frequency** 56 ✓	1 mark for correct tally / *1 punt vir korrekte telling* 1 mark for correct frequency / *1 punt vir korrekte frekwensie*	(1) (1)	
				[2]

QUESTION 6

6.1.1	80 kg ✓	1 mark for all the correct answer *1 punt korrekte antwoord.*	(1)	K
6.2	To saw a beam into 6 equal pieces, the carpenter must make **5 cuts** (each cut creates a new piece). If it takes 30 minutes to make 5 cuts, then each cut takes: *Om 'n balk in 6 gelyke stukke te saag, moet die skrynwerker 5 snitte maak (elke snit skep 'n nuwe stuk). As dit 30 minute neem om 5 snitte te maak, neem elke snit:*	2 marks: correct method 1 mark : correct answer	(3)	PS

	$\frac{30 \text{ minute}}{5 \text{ cuts }/} = 6$ minutes per cut✓ To saw a similar beam into 7 equal pieces, the carpenter needs to make **6 cuts**. So the time required is: *To saw a similar beam into 7 equal pieces, the carpenter needs to make **6 cuts**. So the time required is:* 6 cuts × 6 minutes per cut = 36 minutes✓			
				[4]
				TOTAL /*TOTAAL*: 40 MARKS