Grade 8	Bergvliet High School	November 2025
Time: 1 hour and 15 minutes	Mathematics	Marks: 60
Examiner: Mr D.Sinclair	**FINAL EXAM**	**Moderator: Mr S. Cooppan**
	PAPER 2	

INSTRUCTIONS AND INFORMATION

- If the learner answers a question TWICE, only mark the FIRST attempt.
- If the learner has crossed out an attempt of a question and not redone the question, mark the crossed out version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guideline.
  Stop marking at the second calculation error.
- NOTE: Consistent accuracy (CA) does NOT apply in cases of a breakdown.
- If the learners presents any extra solution when reading from a graph and table then penalise for every extra item presented.
- As a general marking principle, if a learner has incurred one mistake and there is evidence of sound Mathematics thereafter, then that candidate should lose ONE mark only.

Question 1

Q3	ANSWER	DESCRIPTORS	MARKS
1.1.1	C	1A correct option	(1)
1.1.2	C	1A correct option	(1)
1.1.3	D	1A correct option	(1)
			[3]

QUESTION 2

Q2	ANSWER	DESCRIPTORS	MARKS
2.1	$\frac{1}{2}x + 20° = 80°$ $vert.opp\ \angle's =$ $\frac{1}{2}x = 60°$ $\frac{\frac{1}{2}x}{\frac{1}{2}} = \frac{60°}{\frac{1}{2}}$ $x = 120°$ $y = 100°$ $\angle's\ on\ straight\ line = 180°$	✓ $vert.opp\ \angle's =$ ✓ Divide by 0.5 ✓ $x = 120°$ ✓$y = 100°$ ✓$\angle's\ on\ straight\ line$	(5)
2.2	$6a - 40° + 2a + 20° = 180°$ $co - int\ \angle's, KL \parallel MN$ $8a - 20 = 180°$ $8a = 200°$ $a = 25°$	✓ Step ✓ $co - int\ \angle's$ ✓ Answer	(3)
2.3.1	$x = 42°$ $alt\ angles, AC \parallel BD$	✓ Answer ✓ Reason	(2)
2.3.2	$\hat{A} = 102°$ $opp\ \angle's\ in\ parralellogram$ $\hat{B}_2 = 102°$ $corresponding \angle's,\ AC \parallel BD$	✓ A and Reason ✓$\hat{B}_2 = 102°$ ✓ Reason	(3)
			[12]

QUESTION 3

Q3	ANSWER	DESCRIPTORS	MARKS
3.1	$x - 20° + x + 3x + 40° = 180°$ Sum of $\Delta = 180°$ $5x = 180 - 20$ $5x = 160$ $x = 32$	✓ Step ✓ Reason ✓ Answer	(3)
3.2	$R_1 = 180° - 90° - 56° = 34°$ Sum of $\Delta = 180°$ $R_1 + R_2 + R_3 = 180°$ $\angle' s\ on\ straight\ line$ $R_3 = 180° - 34° - 85°$ $R_3 = 61°$	✓ Step ✓ Sum of $\Delta = 180°$ ✓ $\angle' s\ on\ str.line$ ✓ Answer	(4)
3.3	Congruent - A and D also B and C Similar - B and C	✓ A correct values ✓ A correct values	(2)
			[9]

QUESTION 4

Q4	ANSWER	DESCRIPTORS	MARKS
4.1	Reflection over the x-axis	✓ x-axis	(1)
4.2	A	✓ correct values	(1)
4.3	D	✓ correct values	(1)
4.4	Translate 10 units left and 4 units down	✓ no rotation	(1)
			[4]

QUESTION 5

Q5	ANSWER	DESCRIPTORS	MARKS
5.1.1	$FC^2 = 17^2 - 8^2$ Pythagoras $FC^2 = 289 - 64$ $\sqrt{FC} = \sqrt{225}$ $FC = 15cm$	✓ Reason $\checkmark\sqrt{225}$ ✓ 15cm	(3)
5.1.2	$BE = FC = 15cm$ $EF = \frac{1}{3}(15)$ $EF = 5cm$	$\checkmark BE = 15cm$ CA(5.1.1) ✓ Answer	(2)
5.2	$20 + 10 + 9 + 6 + 11 + 4 = 60cm$	✓ 11 & 4 ✓ answer	(2)
5.3	$8 \times 24 = 192cm^2$ $\frac{1}{2} \times 10 \times 8 = 40cm^2$ $192 - 40 = 152cm^2$	✓ Area of rectangle ✓ Area of triangle ✓ Difference in two ✓ Answer	(4)
5.4.1	$650 \div 100 = 65cm$	✓ $\div 100$ ✓ Answer	(2)
5.4.2	$65 \times 50 + 80(75 + 75 + 65)$ $3250cm + 17\,200cm = 20\,450cm^2$	✓ base, ✓ height ✓ length ✓ Answer	(4)
5.4.3	Volume : $\frac{1}{2}(65 \times 50) \times 80 = 130\,000cm^3$ $130\,000 \times 0{,}20 = R26\,000$ His statement is invalid.	✓ $\checkmark\frac{1}{2}(65 \times 50) \times 80$ ✓ $130\,000cm^3$ ✓ multiply by 0,2 ✓ R26 000 ✓ Opinion	(6)
			[22]

QUESTION 6

<table>
<tr><th>Q6</th><th>ANSWER</th><th>DESCRIPTORS</th><th>MARKS</th></tr>
<tr><td>6.1</td><td>$\frac{411}{30} = 13{,}7$</td><td>✓ 413
✓ 13,7</td><td>(2)</td></tr>
<tr><td>6.2</td><td>13</td><td>✓</td><td>(1)</td></tr>
<tr><td>6.3</td><td>18 – 10 = 8</td><td>✓ 18-10
✓ 8</td><td>(2)</td></tr>
<tr><td>6.4</td><td><table><tr><td>Class Interval</td><td>Tally</td><td>Frequency</td></tr><tr><td>10-11</td><td>//</td><td>2</td></tr><tr><td>12-13</td><td>//// //// //</td><td>12</td></tr><tr><td>14-15</td><td>//// ////</td><td>9</td></tr><tr><td>16-17</td><td>//// /</td><td>6</td></tr><tr><td>18-19</td><td>/</td><td>1</td></tr><tr><td></td><td>Total</td><td>30</td></tr></table></td><td>✓ Tallies correct
✓ Frequency correct
✓ Total</td><td>(3)</td></tr>
<tr><td>6.5</td><td>$\frac{7}{30} \times 100 = 23{,}33\%$</td><td>✓$\frac{7}{30}$
✓ 23,33%</td><td>(2)</td></tr>
<tr><td></td><td></td><td></td><td>[10]</td></tr>
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Total Marks : 60 Marks