

PROVINCIAL EXAMINATION NOVEMBER 2022 GRADE 6 MARKING GUIDELINES

MATHEMATICS

5 pages

General marking notes:

- 1. Award full marks for answers only, unless otherwise stated.
- 2. Accept any correct alternative solution that is not included in the memorandum.
- 3. **CA refers to consistent accuracy.**

QU	ESTION	EXPECTED ANSWER	CLARIFICATION	MARK	TOTAL
1.	1.1	A✓		1	
					-
	1.2	B✓		1	-
	13	C√		1	
	1.0			•	-
	1.4	A√		1	
	4.5			4	-
	1.5	Bv		1	
	1.6	D√		1	-
	1.7	A✓		1	-
	18			1	
	1.0			•	•
	1.9	B√		1	
	1 1 0	0 (1	-
	1.10			I	-
	1.11	A✓		1	
	1.12	D✓		1	-
	1.13	C√		1	
]
	1.14	B✓		1	
	1 1 5			1	[4 E]
	1.15				[13]

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2.	2.1	65_450 mℓ	Correct answer:		
			2 marks		
		<u>+ 9 440 me</u>	2 111/01/15		
		74 890 m $\ell \checkmark$ = 74.89 $\ell \checkmark$			
			Add measurements:		
			1 mark		
			Convert answer to litres:		
			1 mark		
			Apply CA		
			Арріу СА		
			Accept any other correct		
			alternative method	2	
			alternative method.	2	
	2.2		Correct answer:		
		56.250 m/	2 marks		
		50 250 m²	ZINARS		
		<u> </u>			
		52 500 mℓ ✓ ✓	Performing a subtraction		
			sum [.] 1 mark		
			Answer: 1 mark		
			Accept any other correct		
			alternative method	C	
			alternative method.	2	
	23	Perimeter [.]	Correct answer		
	2.0		1 mort		
		= 4 cm + 4 cm + 4 cm + 4 cm	I Mark		
		= 16 cm√			
			Adding sides: 1 mark		
			16 cm; 1 mark	1	
				-	
		-			
	2.4	Area:	Correct answer: 2 marks		
		$= 3 \text{ cm} \times 4 \text{ cm}$			
		-12 cm ² (12 square units) $$	Calculating the area of		
		4 cm × 2 cm	rectangular parts of the		
		= 8 cm ² (12 square units)	irregular shape: 1 mark		
			Adding the areas to find		
		10 pm ² + 0 pm ² - 00 pm ² /			
		$12 \text{ Cm}^2 + 8 \text{ Cm}^2 = 20 \text{ Cm}^2 \checkmark$	the total area: T mark		
		OR			
		Count the number of shaded			
				C	
		squares *		2	
	2.5	Calculate the hours from 10:30 to 12:00	Correct answer:		
	-	- 1:30	2 marks		
		1:30 + 6:45 = 8:15			
		8 hours ✓ and 15 minutes ✓	8 hours ✓: 1 mark		
			15 minutes V: 1 mark		
			Accept any other correct		
			alternative method.	2	[9]
	1				

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3.		$40 \div 8 \checkmark = 5 \times 5 = 25 \checkmark$ girls	Correct answer: 2 marks Dividing by 8: 1 mark Multiplying by 5: 1 mark		[2]
4.		R5, 50 <u>- R3, 45</u> <u>R2, 05</u> {{{}{{{{{{{{{{}{{}{}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Correct answer: 2 marks R2 ✓: 1 mark 05 ✓: 1 mark Accept any other correct alternative method.		[2]
5.	5.1	8 vertices ✓ 12 edges ✓		2	
	5.2	1 line of symmetry ✓		1	
	5.3		6 blocks high: 1 mark 4 blocks wide: 1 mark	2	[5]
1	1	1			

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ChildrenNNN20WomenNNN16 \checkmark : 1 markMenNNN16 \checkmark MenNNNIIII \checkmark 196.2TeamNumber of teammembers \bigcirc \bigcirc Children \bigcirc \uparrow $>$ $>$ \uparrow $>$ $>$ \uparrow $>$ $>$	6.	6.1	Number of team members:	Tally marks	Frequency	Correct answers: 2 marks		
WomenNN116'MenNNN19MenNNNNMenNNNMenNNNMenMen \bigcirc \bigcirc Children \bigcirc 170 ml × 2 = 340 ml (M			Children		20	16 √: 1 mark		
MenM			Women		161	NNNN IIII √: 1 mark		
6.2 Team members Number of team members Correct answers: 3 marks 3 marks 10 smiling faces (represent 20) √ 💮 💮 💮 💮 💮 🌍 ぐ 8 smiling faces (represent 16) √ 9½ smiling faces (represent 16) √ Women 💬 💮 💮 🌍 ぐ ✓ 8 smiling faces (represent 10) √ 8 smiling faces (represent 10) √ Men 💬 💮 💮 🌍 ぐ ✓ 3 [5] 7. 540 ml – 370 ml ✓ = 170 ml (Mass of water in ½ of a container.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container: 1 mark. 540 ml – 340 ml = 200 ml ✓ (Mass of container alone.) 1 mark. Subtract mass of water to find mass of container: 1 mark. Subtract mass of container: 1 mark. [2]			Men		19	for not drawing straight lines for tally marks.		
6.2 Team Number of team members Correct answers: 3 marks 10 smiling faces (represent 20) ✓ Women Image: Imag				✓			2	
6.2 I eam members members Number of team members Children			-					
Internetions Internetions Internetions Children Image: Internetions Image: Internetions Children Image: Internetions Image: Internetions Image: Internetions Image: Internetions Ima		6.2	Team	Number of te	eam	Correct answers:		
Image: Constraint of the constr			Children	$\bigcirc \bigcirc $	$\overline{00}$	10 smiling faces		
Women Image: Comparison of the compari						(represent 20) ✓		
Women Image: Construction of the constr						8 smiling faces (represent 16) ✓		
Image: Second system <t< td=""><td></td><td></td><td>Women</td><td></td><td></td><td>9½ smiling faces</td><td></td><td></td></t<>			Women			9½ smiling faces		
Men Image: Comparison of				$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$		(represent 19) ✓		
7. 540 ml - 370 ml ✓ = 170 ml (Mass of water in ½ of a container.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container. Correct answer: 2 marks Calculate difference between mass of half and mass of full container. 540 ml - 340 ml = 200 ml ✓ (Mass of container alone.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container. [1] 1 mark. Subtract mass of water to find mass of container. 1 mark. [2] TOTAL: 40			Men	$-\bigcirc \bigcirc $	$\overline{)}$			
7. 540 ml - 370 ml ✓ = 170 ml (Mass of water in ½ of a container.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container: 170 ml × 2 = 340 ml (Mass of water in a full container.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container: 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
7. 540 ml - 370 ml ✓ = 170 ml (Mass of water in ½ of a container.) 170 ml × 2 = 340 ml (Mass of water in a full container.) 540 ml - 340 ml = 200 ml ✓ (Mass of container alone.) Correct answer: 2 marks Calculate difference between mass of half and mass of full container: 1 mark. Subtract mass of water to find mass of container: 1 mark. Image: Correct answer: 2 marks 							3	[5]
7. 540 mi - 370 mi ✓ = 170 mi (Mass of water in 1½ of a container.) Correct answer: 2 marks 170 ml × 2 = 340 ml (Mass of water in a full container.) Calculate difference between mass of half and mass of full container: 540 ml - 340 ml = 200 ml ✓ (Mass of container alone.) 1 mark. Subtract mass of water to find mass of container: 1 mark. Imate: 1 mark.	7	E 40!	070 (170 ml /Maas -	unator in			
170 ml × 2 = 340 ml (Mass of water in a full container.) between mass of half and mass of full container: 540 ml − 340 ml = 200 ml ✓ (Mass of container alone.) 1 mark. Subtract mass of water to find mass of container: 1 mark. TOTAL: 40	1.	540 ml – 370 ml \checkmark = 170 ml (Mass of water in $\frac{16}{16}$ of a container.)			Correct answer: 2 marks			
container.) 540 ml – 340 ml = 200 ml ✓ (Mass of container alone.) mass of full container: 1 mark. Subtract mass of water to find mass of container: 1 mark. [2] TOTAL: 40		170 ml \times 2 = 340 ml (Mass of water in a full container.)				between mass of half and		
alone.) 1 mark. alone.) 1 mark. Subtract mass of water to find mass of container: 1 mark. [2] TOTAL: 40						mass of full container:		
find mass of container: 1 mark. [2]		$340 \text{ m} = 340 \text{ m} = 200 \text{ m} \neq (\text{Mass of container})$			Subtract mass of water to			
1 mark. [2]						find mass of container:		
TOTAL: 40						1 mark.		[2]