



Hoërskool Johan Jurgens
Mathematical Literacy
Grade 11
Term 1

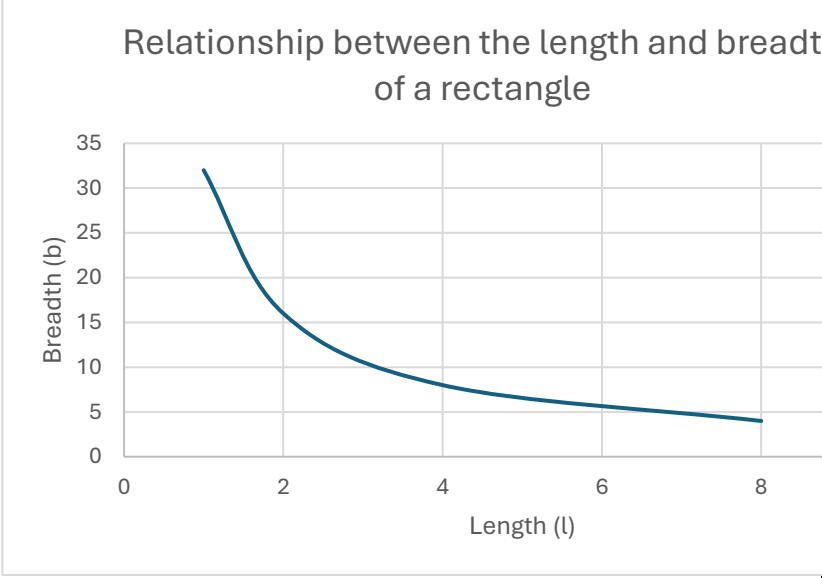
Cycle Test Marking Guidelines

Examiner: N van Rensburg
Moderator: M Botha

Time: 60 minutes
Total: 50 marks

Number	Level	Questions	Marks
1.1.1	1	Desk and chair: 0.08 tons Bookshelf: 0.07 tons Fridge: 0.25 tons Cabinets: 0.063 tons	✓ ✓ ✓ ✓
1.1.2	3	Total: $0.08 + 0.07 + 0.25 + 0.063 = 0.463$ tons Conclusion: The total mass of the appliances is less than the maximum capacity of the crate. The wooden crate will be able to hold all the appliances.	✓ ✓
1.2.1	1	$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times \frac{5}{9}$	✓
1.2.2	2	$(72 - 32) \times \frac{5}{9}$ $= 22.2^{\circ}\text{C}$	✓
1.2.3	2	Conclusion: Nicki's claim is valid, as 72°F is equal to 22.2°C .	✓
1.3	3	Convert both lengths to the same unit - Ocelot: $39 \text{ inches} \times 2.54$ $= 99.06 \text{ cm}$ - Bengal: 45 cm	✓ ✓

		Conclusion: The Bengal cat is smaller and therefore better suited to a smaller space.	✓
2.1.1	2	$C = R120 + R0.85xm$	✓✓ - 0 marks allocated if C and m are not used - Accept with or without unit (R)
2.1.2	2	$C = 120 + 0.85 \times 200$ $= R290$	✓ ✓ - Do not accept answer without unit (R)
2.1.3	3	A = 100 B = 120 C = 375	✓ ✓ ✓
2.1.4	4	No, because there is a fixed cost even if no minutes are used.	✓ ✓
2.2.1	2	Number of T-shirts = $120/2$ = 60 T-shirts per hour	✓ ✓ - accept answer with and without unit (T- shirts per hour)
2.2.2	3	In 9 hours = 60 T-shirts per hour x 9 hours = 540 T-shirts	✓ ✓ Accept answer with or without unit (T- shirts)
2.2.3	2	Number of hours x 60 / time x 60	✓

			-Accept similar in words or numbers
2.2.4	4	Slower	✓
2.3.1	1	Inverse proportion	✓ Do not accept decreasing
2.3.2	1	Decreasing As the x-value/ length increases, the y-value/ breadth decreases OR as one value increases, the other value decreases.	✓ ✓
2.3.3	2	<p>Relationship between the length and breadth of a rectangle</p> 	✓ x-axis and y-axis labelled ✓ title ✓ Proper scale used ✓ Shape ✓✓ Points plotted correctly
2.3.4	3	5.3	✓ - Accept between 5.1-5.6
3.3.1	4	$2500 \times 1000 = 2\,500\,000$ ml (conversion to ml) $2\,500\,000 / 500\text{ml} = 5000$ bottles OR $500 / 1000$ (conversion to L) $2500 / 0.5\text{L} = 5000$ bottles	✓ ✓ ✓ ✓
3.3.2	2	$2500 \text{ L} \times \frac{3}{4} = 1875 \text{ L}$	✓ ✓

			- Accept x75%/ x0.75 calculati on - Do not accept answer without unit
3.3.3	1	1875 / 4,546 = 412,45 gallons	✓
4.1.1	2	2 hours and 15 minutes / 2 and a quarter hours / 2.25 hours	✓✓
4.1.2	2	1 hour 5 minutes	✓✓
4.2.1	2	4 Hours 45 minutes / 4 and a $\frac{3}{4}$ hours / 4.75 hours	✓✓
4.2.2	3	12:45 / quarter to 3	✓✓