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PREPARATORY EXAMINATION

2023

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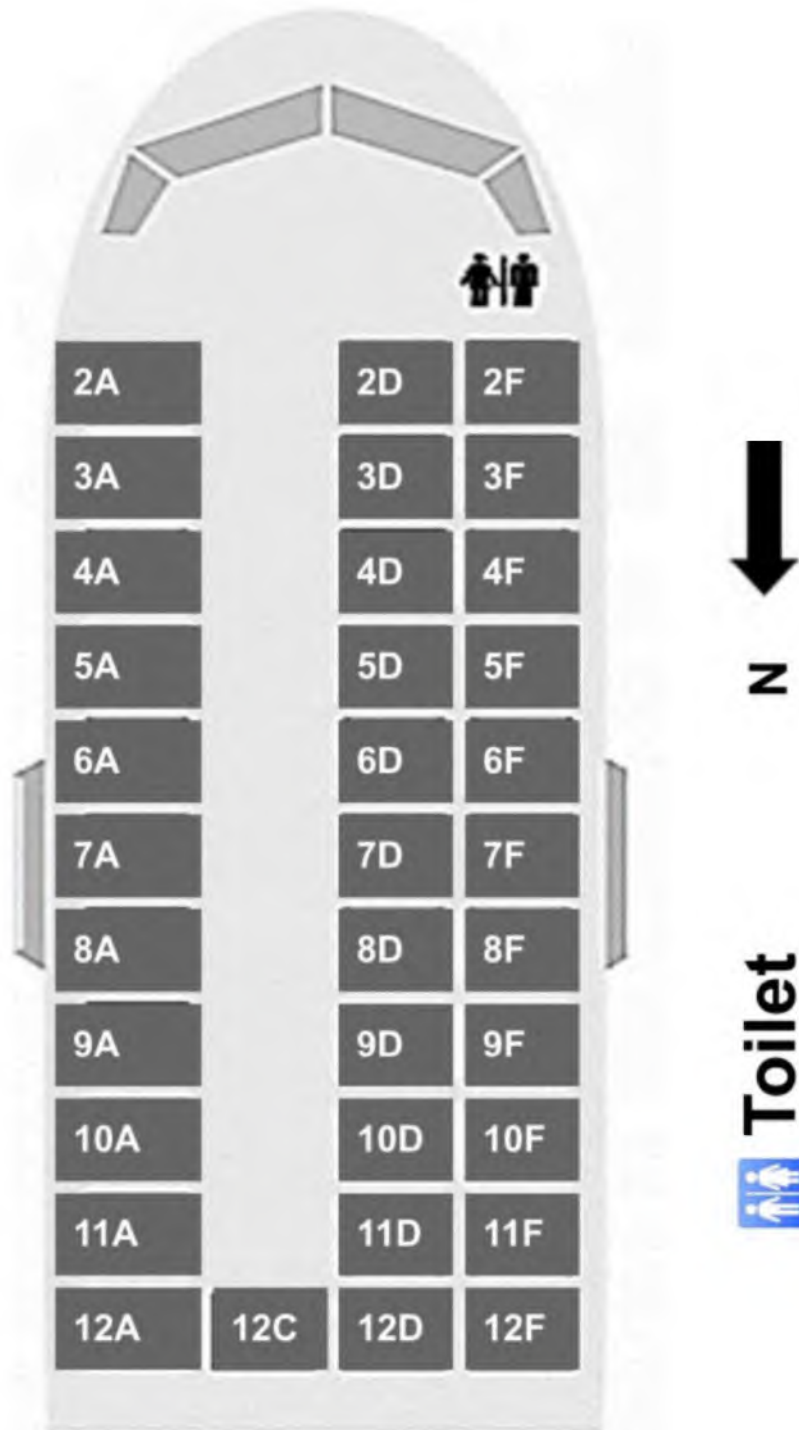
**MATHEMATICAL LITERACY
(PAPER 2)**

ADDENDUM

6 pages

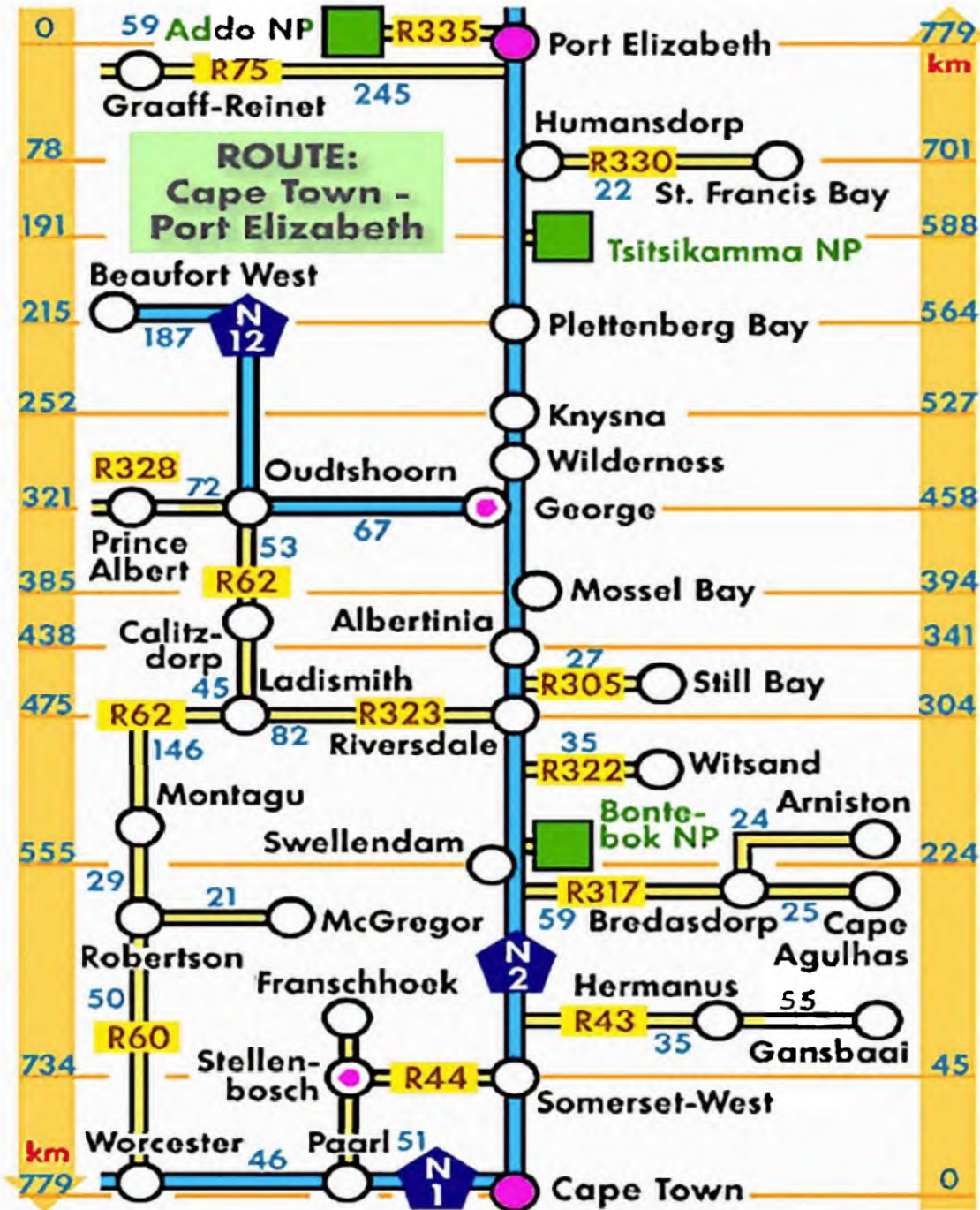
ANNEXURE A

QUESTION 1.3



ANNEXURE B

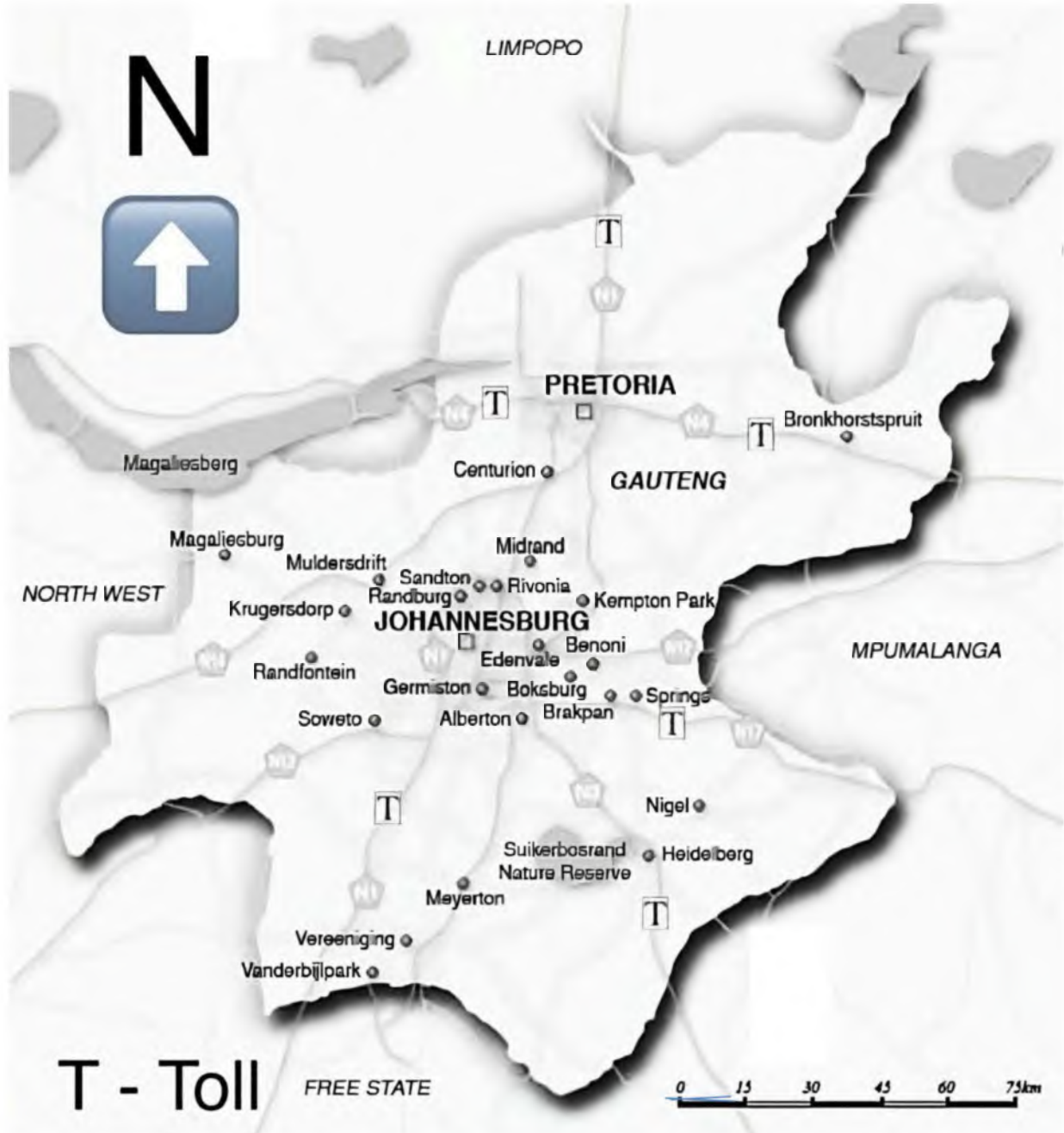
QUESTION 2.1



P.T.O.

ANNEXURE C

QUESTION 4.1



P.T.O.

ANNEXURE D

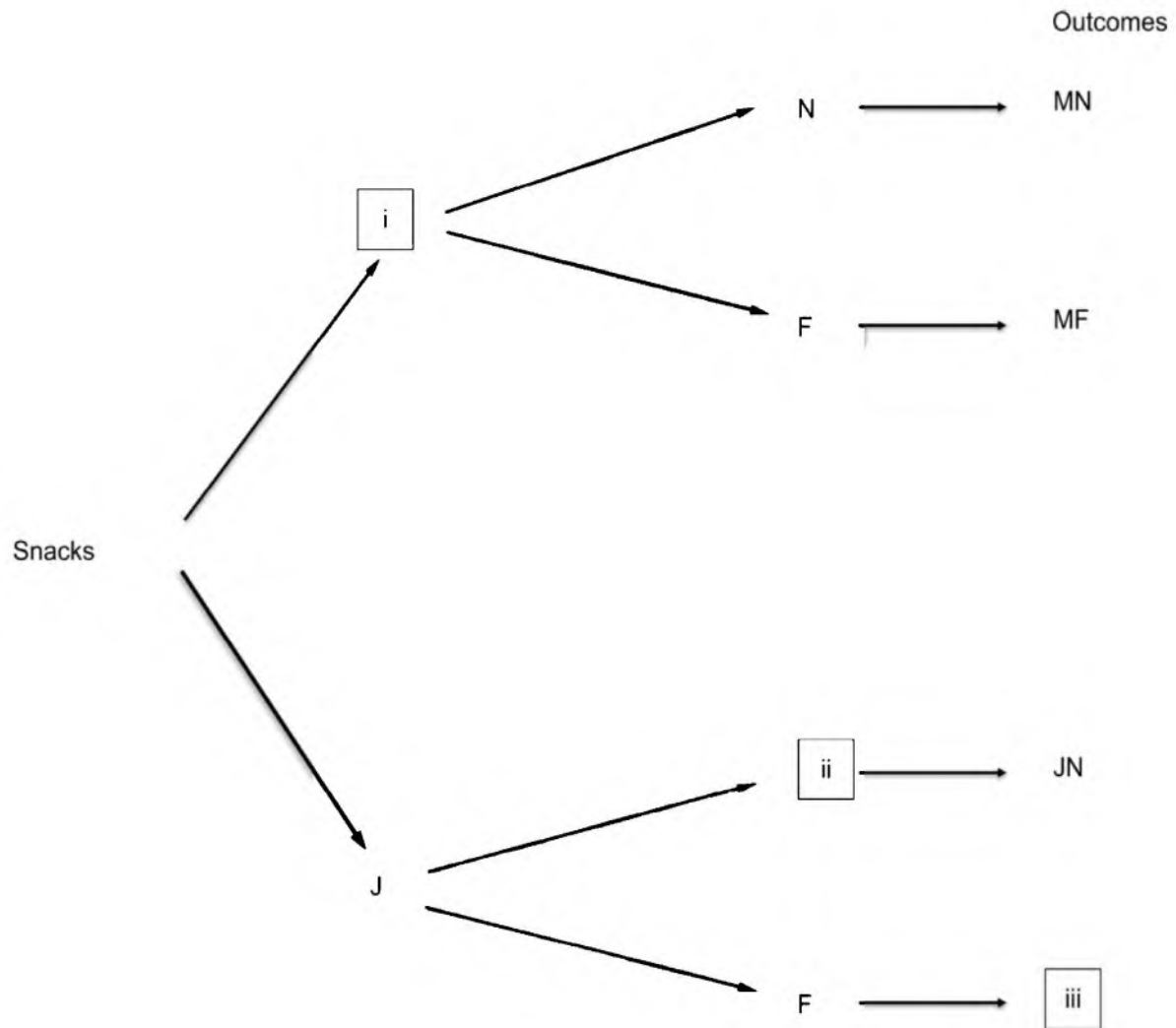
QUESTION 5.1

NORTHBOUND									
Depart	Depart	Depart	Depart	Depart	Depart	Depart	Depart	Depart	Arrive
Park Station	Rosebank	Sandton	Marlboro	Midrand	Centurion	Pretoria			Hatfield
06:45	06:49	06:53	06:57	07:04	07:13	07:23			07:30
07:00	07:04	07:08	07:12	07:19	07:28	07:38			07:45
07:15	07:19	07:23	07:27	07:34	07:43	07:53			08:00
07:30	07:34	07:38	07:42	07:49	07:58	08:08			08:15
07:45	07:49	07:53	07:57	08:04	08:13	08:23			08:30
08:00	08:04	08:08	08:12	08:19	08:28	08:38			08:45

SOUTHBOUND									
Depart	Depart	Depart	Depart	Depart	Depart	Depart	Depart	Depart	Arrive
Hatfield	Pretoria	Centurion	Midrand	Marlboro	Sandton	Rosebank			Park Station
06:38	06:48	06:55	07:04	07:10	07:15	07:19			07:23
06:53	07:03	07:10	07:19	07:25	07:30	07:34			07:38
07:08	07:18	07:25	07:34	07:40	07:45	07:49			07:53
07:23	07:33	07:40	07:49	07:55	08:00	08:04			08:08
07:38	07:48	07:55	08:04	08:10	08:15	08:19			08:23
07:53	08:03	08:10	08:19	08:25	08:30	08:34			08:38

ANNEXURE E

QUESTION 5.2



END

3.6 The concrete mix is sold strictly in wheelbarrows at a local hardware store.

Take note of the following:

- $1 \text{ m}^3 = 20$ wheelbarrows.
- The cost of 1 m^3 of concrete mix is R1 800.

Use calculations to determine whether the cost of the concrete mix needed to half-fill the braai stand will be less or more than R300.

(9)
[32]

QUESTION 4

4.1 Tshepo is planning to travel from Centurion to visit his family in Soweto. He studies a map as he is a new driver. Study the map in ANNEXURE C and answer the following questions.

4.1.1 Name the type of scale that is used in the map. (2)

4.1.2 Name the neighbouring provinces found on the eastern and western sides of Gauteng. (2)

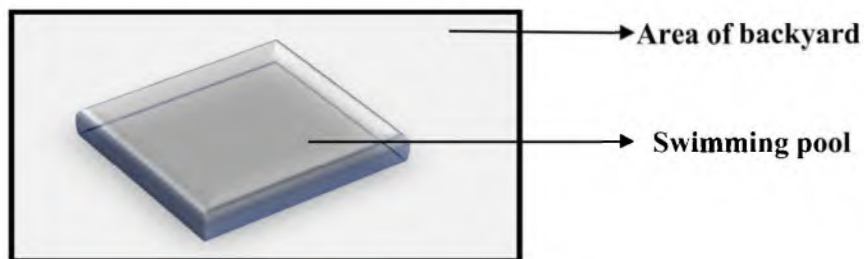
4.1.3 Use the given scale to calculate the actual distance between Centurion and Soweto. Round-off your answer to the nearest kilometre. (6)

4.1.4 Hence, determine the number of litres of petrol required to cover the return trip if the consumption rate of Tshepo's car is $0,086 \text{ l/km}$. (5)

4.1.5 What is the probability of finding a toll gate in the south eastern side of Johannesburg? Express your answer as a percentage. (3)

4.2 Tshepo decided to pave the swimming pool area of his family home in Soweto.

- The shape of the swimming pool is square with each side = $9,84252 \text{ ft}$
- $1 \text{ ft} = 0,3048 \text{ m}$
- The area of the backyard where the swimming pool is situated is 7 m by 5 m .



4.2.1 Convert the side of the swimming pool to metres. (2)

4.2.2 Hence, determine the perimeter of the swimming pool in metres.

You may use the formula: **Perimeter = 4 × side** (2)

4.2.3 The swimming pool is usually not filled to the top. What could be a possible reason for this? (2)

4.2.4 Explain the difference between *capacity* and *volume* in this context. (4)

4.2.5 Determine in m², the area of the backyard that will NOT be paved.

You may use the formulae: **Area of square = side × side**
Area of rectangle = length × width (7)
[35]

QUESTION 5

5.1 Siphon lives in Pretoria and travels daily to his workplace in Rosebank using the Gautrain.

- His reporting time (starting time) is 08:00 every day.
- He walks for 10 minutes to his workplace in Rosebank.

Study the Gautrain timetable in ANNEXURE D and answer the following questions.

5.1.1 Which train (southbound or northbound) must he take in the morning to work? Explain your answer. (2)

5.1.2 What is the LATEST that he should depart from Pretoria if he wants to be at work on time? (2)

5.1.3 Calculate the duration of Siphon's journey to work, including the walking time. (3)

5.1.4 Give TWO advantages of using the Gautrain. (4)

5.1.5 The average temperature in Pretoria in December is 30 °C. Convert this temperature to °F.

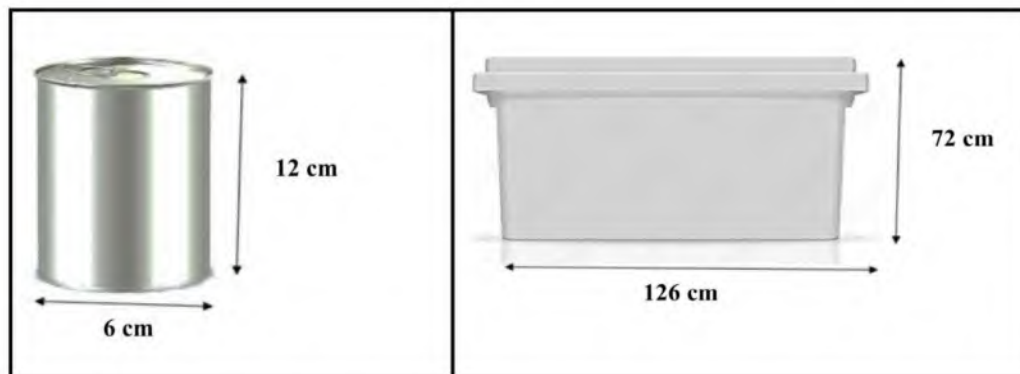
You may use the formula: **°F = (1,8 × °C) + 32°** (2)

5.2 Siphon decided to change his lifestyle and eat healthy meals only. He decided to drink milk (M) or juice (J) and eat nuts (N) or fruit (F) during tea breaks. He used a tree diagram to explore the possible options of snacks.

Study the tree diagram in ANNEXURE E and complete it by writing the correct letter next to (i) – (iii) in your ANSWER BOOK (6)

- 5.3 Siphso bought canned fruit and he must pack the cans in a plastic container. The dimensions of a can and the container are as follows:

Can	Plastic container
Diameter: 6 cm	Length: 126 cm
Height: 12 cm	Height = 72 cm
	Width = 53 cm



Tumelo advised Siphso to pack the cans upright so that he can pack 1 134 cans in the container. Verify his claim.

(7)
[26]

TOTAL: 150