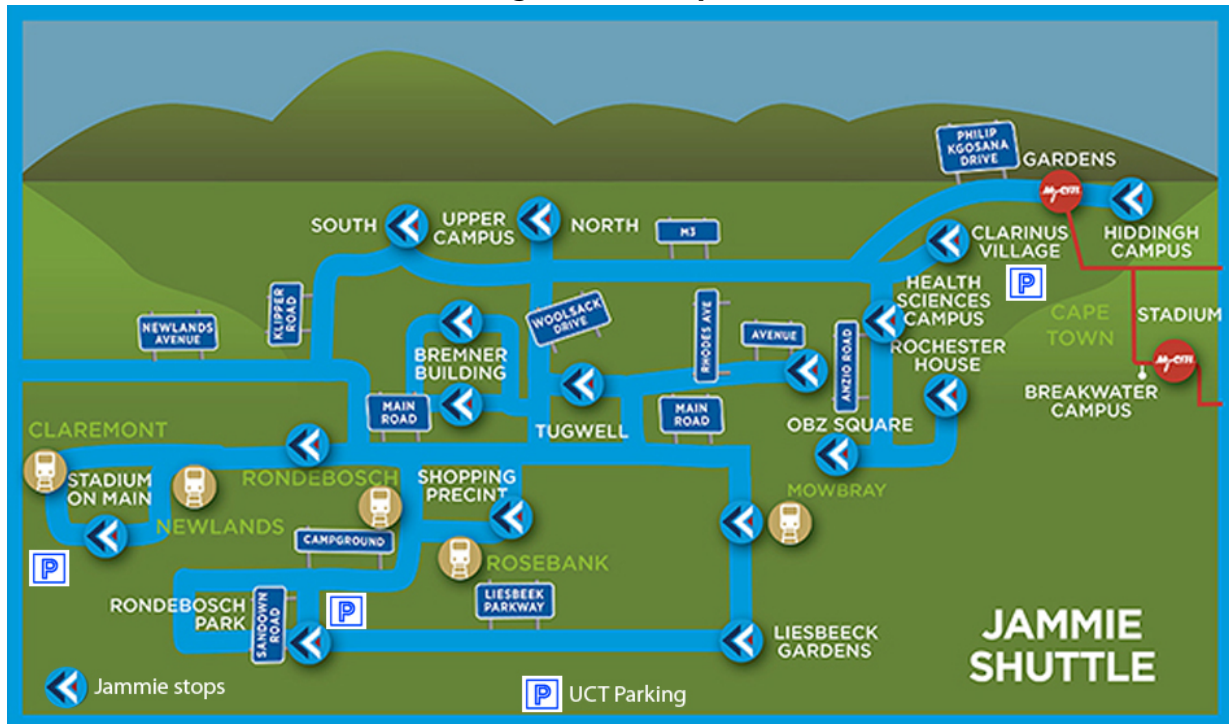




Subject: Grade 10 Maths Literacy
Topic: Mathematical Literacy: Term 2 - Exam 1
Total: 140 Marks

Name: _____
Date: _____

This image refers to question: 1



Question 1: Multiple Choice

4 marks

Refer to the Jammie Shuttle map.

The Jammie stop that is not close to a UCT parking area is (...).

- | | |
|---|------------------|
| A | Stadium on Main |
| B | Rondebosch Park |
| C | Clarinus Village |
| D | OBZ Square |

This image refers to question: 2, 3, 4





Question 2: Multiple Choice

4 marks

Peter paid (...) for one packet of Oreo cookies.

- | | |
|----------|--------|
| A | R6,99 |
| B | R8,49 |
| C | R18,99 |
| D | R45,50 |

Question 3: True/False

2 marks

Peter's purchase of R114,44 at Clicks Pharmacy includes 15% VAT.

TRUE	FALSE
-------------	--------------

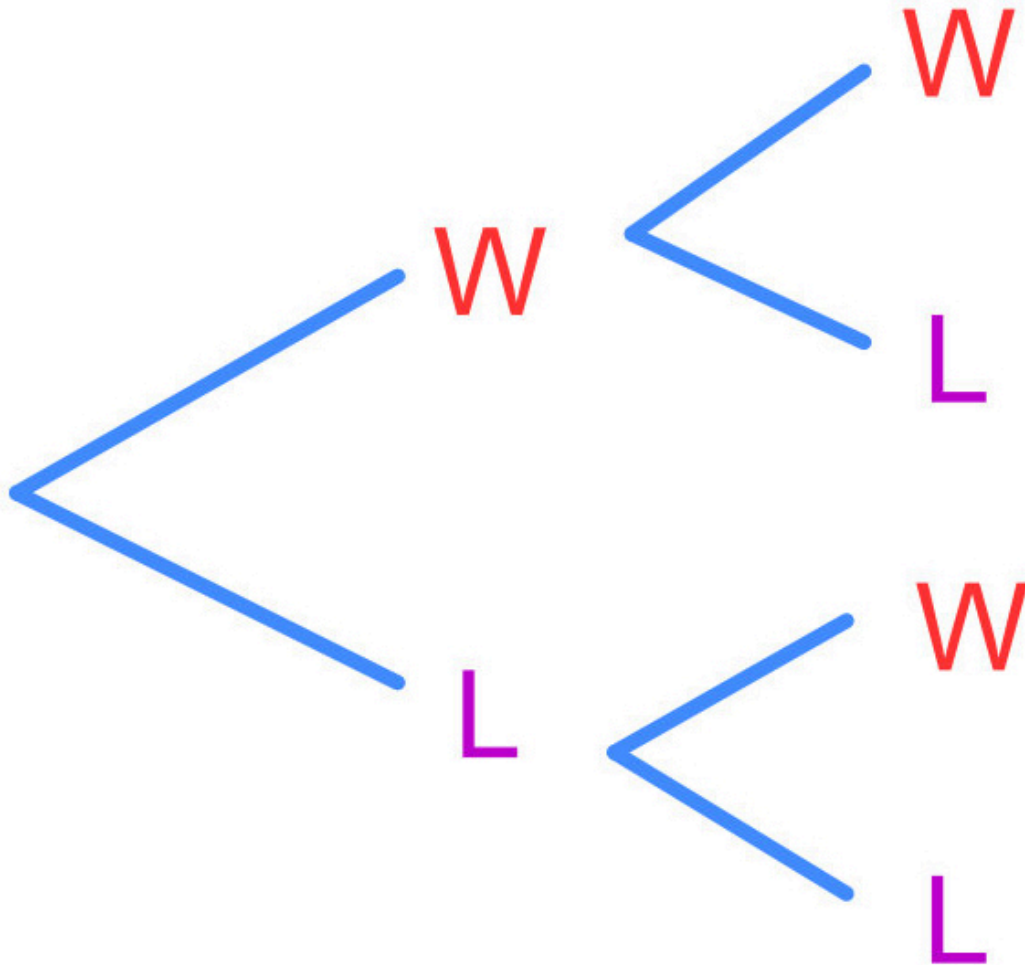
Question 4: Multiple Choice

4 marks

Peter used ... to pay for his purchase at Clicks Pharmacy.

- | | |
|----------|---------------|
| A | cash |
| B | a debit card |
| C | a credit card |
| D | a voucher |
-

This image refers to question: 5, 6



Question 5: Text Input

3 marks

The tree diagram represents the local debate team's probability of a win or lose in two consecutive rounds in a competition, competing only against one other team that is equally good.

There are ... possible outcomes.

Give your answer as a number only.

Question 6: Please Fill In The Blanks

4 marks

The tree diagram represents the local debate team's probability of a win or lose in two consecutive rounds in a competition, competing only against one other team that is equally good.

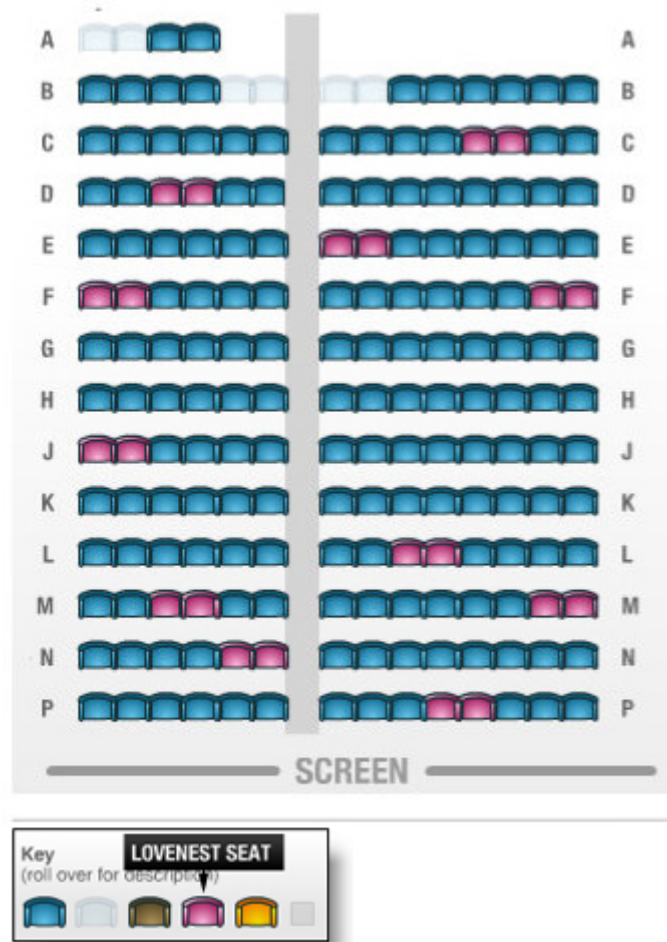
The probability of the team having a win in at least one of the rounds is (1) out of (2).

Possible Answers: 1 | 2 | 3 | 4 | 5 | 6

1	
----------	--

2	
----------	--

This image refers to question: 7



Question 7: Multiple Choice

4 marks

Refer to the cinema layout.

Which row, closest to the screen, has no *lovenest seat*.

- | | |
|----------|---|
| A | A |
| B | B |
| C | H |
| D | K |

Question 8: True/False

2 marks

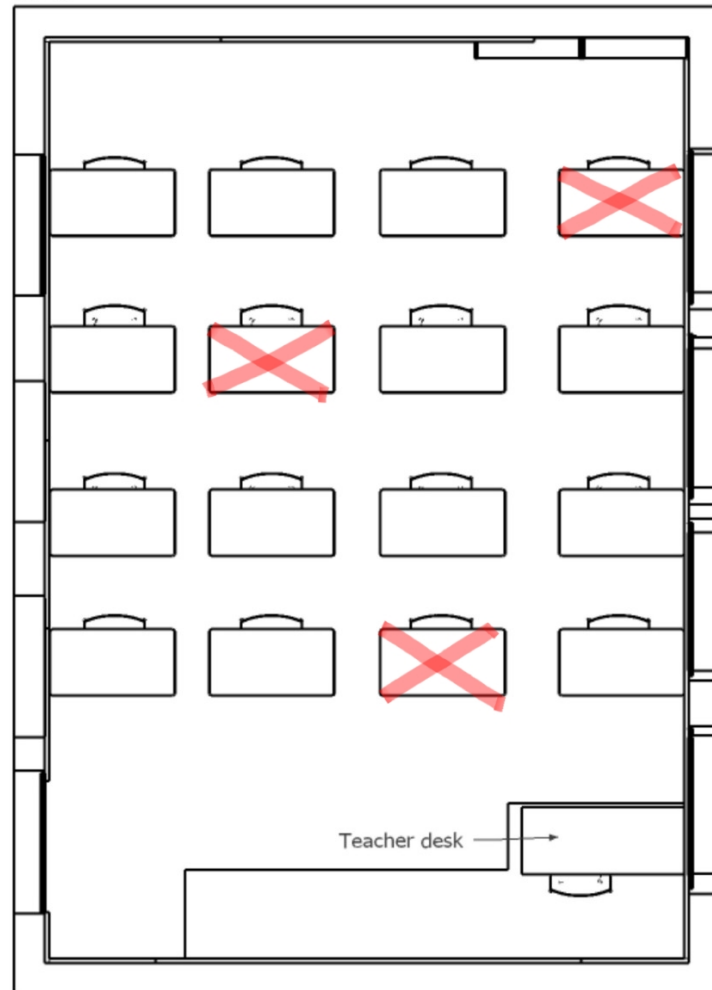
Sesethu has breakfast at 6 : 45 a.m. and eventually has lunch at half past 3 in the afternoon. The elapsed time between the two meals is 8 hours and 45 minutes.

☐ **TRUE**☐ **FALSE**



This image refers to question: 9

1:20



Question 9: Text Input

3 marks

View the classroom seating plan of Mr Smith's classroom. On the seating plan, he has indicated the desks where only one learner is seated, with a red cross. He has placed two learners at all the other desks.

If 2 learners are absent, there are ... learners present.

Give your answer as a number only.

Question 10: Please Fill In The Blanks

6 marks

Convert the following:

1. $23,7 \text{ kg} = (1) \text{ g}$

2. $2,37 \text{ m} = (2) \text{ cm}$

3. $2\,370 \text{ mg} = (3) \text{ g}$

Possible Answers: 237 | 23,7 | 2 370 | 23 700 | 0,237 | 2,37

1	
3	

2	
----------	--

Question 11: Multiple Choice

4 marks

The principal announces that there are still 2 weeks and 4 days left before the start of the examinations.
Today's date is 4 June 2021.

The mid-year examination starts on

A	22 June 2021
B	23 June 2021
C	24 June 2021
D	25 June 2021

Question 12: True/False

2 marks

A treat is hidden under a plastic cup for the training of a dog. There are 5 cups, numbered 1 to 5. The probability that the treat is hidden under cup 2 is 25%.

TRUE	FALSE
-------------	--------------

This image refers to question: 13, 14, 15

BAKED MACARONI & CHEESE

INGREDIENTS:

- 250 grams elbow pasta
- 3 tablespoons unsalted butter
- 3 tablespoons all-purpose flour
- 1 teaspoon paprika
- 1/2 teaspoon onion powder
- 375ml evaporated milk*
- 350 grams shredded extra-sharp cheddar cheese, about 3 cups, divided
- 1/4 cup freshly grated Parmesan
- Salt and freshly ground black pepper, to taste
- 2 tablespoons chopped fresh chives

DIRECTIONS:

1. Preheat the oven to 180 degrees Celsius.
2. In a large pot of boiling, salted water, cook pasta according to package instructions; drain well.
3. Melt butter in a large skillet over medium high heat. Whisk in flour, paprika and onion powder until lightly browned, about 1 minute.
4. Gradually whisk in evaporated milk until slightly thickened, about 4-5 minutes.
5. Remove from heat. Stir in 2 cups cheddar cheese and Parmesan. Stir in pasta; season with salt and pepper, to taste.
6. Place pasta in ovenproof bowl.* Place onto a baking sheet; sprinkle with remaining 1 cup cheddar cheese.
7. Place into oven and bake until golden brown, about 20-25 minutes.
8. Serve immediately, garnished with chives, if desired.

Question 13: Please Fill In The Blanks

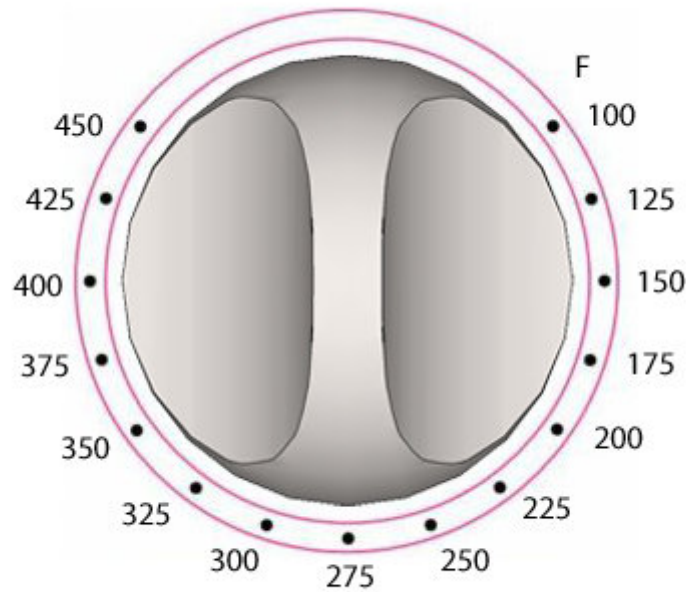
4 marks

The evaporated milk in this recipe can be measured using measuring cups. If you were to follow this recipe, you would measure the evaporated milk with (1) and a (2) cup(s).

Possible Answers: one | three quarter | third | half | quarter | two

1		2	
----------	--	----------	--

This image refers to question: 14



Question 14: Text Input

3 marks

Madeline decided to make baked macaroni and cheese, and then realised that the oven's temperature is in Fahrenheit.

If Madeline were to follow the instructions of the recipe, the closest estimated temperature that Madeline would turn the dial on this oven to, is ... °F.

Formula: $^{\circ}\text{C} \times \frac{9}{5} + 32 = ^{\circ}\text{F}$

Give your answer as a number only.

Question 15: True/False

2 marks

In the recipe for baked macaroni and cheese, the ratio of Parmesan to Cheddar cheese is 1 : 12.

TRUE

FALSE

This image refers to question: 16

	R	N	H
B	BR	BN	BH
Y	YR	YN	YH
G	GR	GN	GH

Question 16: Text Input

3 marks

The contingency (two-way) table represents the possible outcomes of the type of ball: rugby (R), netball (N) and hockey (H) in a selection of three different colours, namely blue (B), yellow (Y) and green (G).

If a container is filled with only one of each combination, and a ball is selected at random, the probability of it being either a yellow hockey ball or a green netball ball is

Give your answer as a decimal number rounded to two decimal places.

This image refers to question: 17, 18, 19, 20

Netflix data usage

Time (hours)	1	2	3	4	10	B
Data (GB)	2	3,7	4,4	6,1	A	22,4

Question 17: True/False

2 marks

The table represents the data usage when streaming on Netflix.

The dependant variable in this case is the amount of hours.

TRUE

FALSE

Question 18: Multiple Choice

4 marks

The table represents the data usage when streaming on Netflix.

Which one of the following is NOT a coordinate that will be used to represent this table on a graph.

A	(0; 0)
B	(2; 3, 7)
C	(2; 1)
D	(3; 4, 4)

Question 19: Please Fill In The Blanks

4 marks

The table represents the data usage when streaming on Netflix. For every hour Netflix is streamed, it uses 1, 7 GB and within the first hour there is usually another 0, 3 GB used for the initial connection and searching of content.

Calculate the missing values in the table.

A= (1) and B= (2)

Possible Answers: 12 | 22,2 | 13 | 12,9 | 4,7 | 12,2 | 17,3

1		2	
----------	--	----------	--

Question 20: Text Input

3 marks

The table represents the data usage when streaming on Netflix. For every hour Netflix is streamed, it uses 1, 7 GB and within the first hour there is usually another 0, 3 GB used for the initial connection and searching of content.

Using the variable D for data used and the variable t for the time in hours, the rule representing this information will be $D = \dots$

(If multiplication with the variable is used, write $2 \times b$ as $2b$.)

--

Question 21: Multiple Choice

4 marks

Arrange the following numbers from smallest to largest:

235 402; 253 420; 325 402; 235 240

- | | |
|----------|------------------------------------|
| A | 235 402; 325 402; 253 420; 235 240 |
| B | 235 240; 235 402; 253 420; 325 402 |
| C | 325 402; 253 420; 235 402; 235 240 |
| D | 253 420; 235 402; 325 402; 235 240 |
-

Question 22: Multiple Choice

4 marks

Choose the option which will be the least likely on a probability scale.

- | | |
|----------|--|
| A | Throwing an even number on a dice. |
| B | A person is chosen randomly for a project out of a group of 20 people. |
| C | A 16-year old is currently enrolled in a school. |
| D | It snows on Christmas Day in South Africa. |
-

Question 23: Text Input

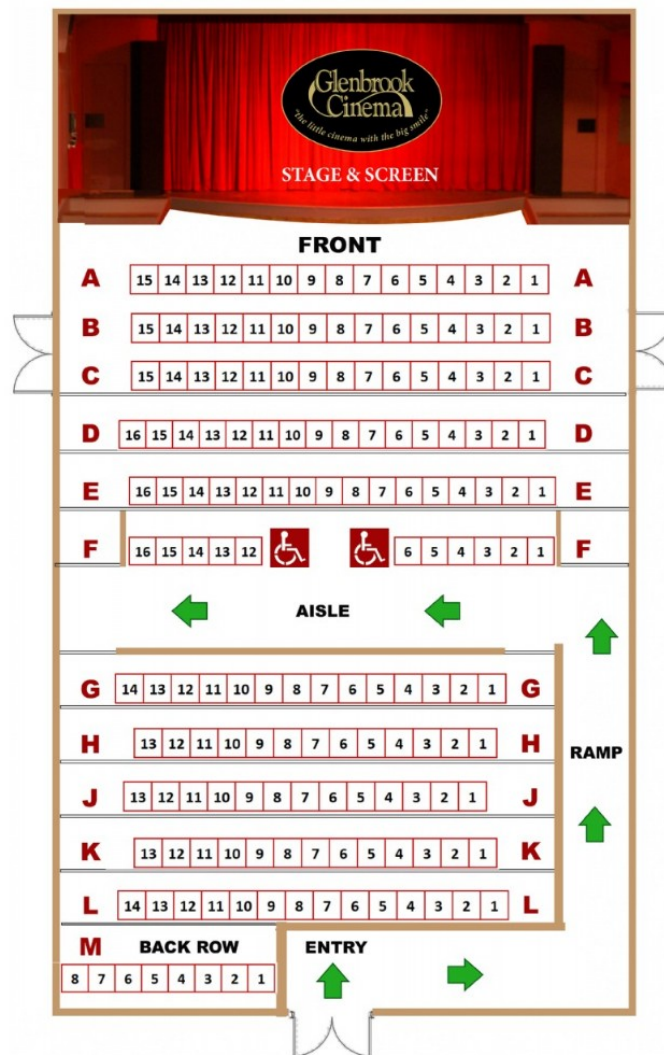
3 marks

Madeline has 3, 2 kg of elbow macaroni. If she wants to make this recipe 6 times, she would use ... % of the total amount of macaroni.

Give your answer as a decimal number rounded to one decimal place.

--

This image refers to question: 24, 25



Question 24: Multiple Choice

4 marks

Refer to the Glenbrook Cinema seating plan.

The fourth row from the entrance, that is connected to the ramp, is row

- | | |
|----------|---|
| A | J |
| B | D |
| C | H |
| D | C |

Question 25: Please Fill In The Blanks

4 marks

Andrea buys tickets at Glenbrook Cinema for herself and her grandmother who is in a wheelchair. The best seat for Andrea is (1) or (2) if she wants to sit next to her grandmother who has either one of the wheelchair allocations.

Select your answers in numerical order.

Possible Answers: E11 | E7 | F12 | F6 | F16

1	
----------	--

2	
----------	--

Question 26: True/False

2 marks

Lindiwe buys a pair of boots at Fashionista at a 30% discount. They were originally priced at R499, 00. With the discount, she pays R469, 00 for the boots.

TRUE

FALSE

Question 27: Please Fill In The Blanks

6 marks

Calculate $\frac{2}{3} + \frac{1}{4}$ without the use of a calculator.

The LCD will be (1) and the answer will have (2) as the numerator and (3) as the denominator.

Possible Answers: 3 | 6 | 12 | 7 | 11 | 24

1	
3	

2	
----------	--

Question 28: Text Input

3 marks

Nuraan walks 5 000 steps each day, with each step being measured as 25 cm. This means she walks ... km each day.

Give your answer as a decimal number rounded to two decimal places.

--

This image refers to question: 29, 30, 31



Fanus Delport
24 Mopanie weg
Pretoria east
9856

STATEMENT	
Credit Available	R5,996.22
Statement Date	12 May 2021
Statement Period	13/04/2021 - 12/05/2021
Account Number	75099820348
Interest Rate – Revolving	17,50%
Payment Due Date	1 June 2021
Total Amount Owing	R3,822.78
Minimum Amount Due	R255.57
Overdue Amount	R0.00
Total Monthly Payment Due	R255.57



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Customer services: 0861 789 989
capeunionmart@rcsgroup.co.za

ACCOUNT SUMMARY	
Credit Limit	R9,819.00
Opening Balance	R3,963.24
Interest	R54.54
Fees	R49.57
Insurance + Other Subscriptions	R18.00
Payments Received	R262.57 CR
Closing Balance	R3,822.78

TRANSACTION SUMMARY - REVOLVING		
Date	Description	Amount
12/05/2021	MONTHLY SERVICE FEE	R49.57
12/05/2021	CP INSURANCE	R18.00
12/05/2021	INTEREST	R54.54

TRANSACTION SUMMARY - PAYMENTS		
Date	Description	Amount
03/05/2021	DEBIT ORDER PAYMENT	R262.57 CR

Question 29: True/False

2 marks

The next payment due on Mr Delport's RCS credit card statement is on 12 May 2021.

TRUE

FALSE

Question 30: Text Input

3 marks

Mr F. Delport receives his RCS credit card statement, but notes a mistake: the payment he made on 7 May 2021 is not indicated in the payment section.

He sends an e-mail to ... about his query.

Only give the **e-mail address** as your answer.

Question 31: Please Fill In The Blanks

6 marks

Mr F Delport received the following RCS credit card statement. The opening balance, according to his statement, is R (1) and the closing balance is R (2). The monthly payment due on 1 June 2021 is R (3).

Possible Answers: 9 819,24 | 3 822,78 | 262,57 | 3 963,24 | 255,57

1	
3	

2	
----------	--

This image refers to question: 32, 33

**Question 32: True/False**

2 marks

Refer to the map of the Victoria Wharf shopping centre.

You have a medical emergency. The closest entrance to medical help is Entrance 3 on the map provided.

TRUE	FALSE
-------------	--------------

Question 33: Please Fill In The Blanks

3 marks

View the map of the Victoria Wharf shopping centre's ground floor. According to this map, there are public toilets next to (1) and an ATM in front of (2).

Possible Answers: Clicks | Hamleys | H&M | Woolworths | CNA

1	
---	--

2	
---	--

This image refers to question: 34, 35

Star Bus Service

Distance	Rate per <i>km</i>
0-5 <i>km</i>	R7,50
6-10 <i>km</i>	R6,50
11-20 <i>km</i>	R5,50
More than 20 <i>km</i>	R5,00

**Question 34: Text Input**

4 marks

The following represents the current tariff system of Star Bus Service.

You have to travel 7,2 *km* using this bus service. You will pay R ... for your trip.

Give your answer as a decimal number rounded to two decimal places.

--

Question 35: Please Fill In The Blanks

6 marks

Star (1) Service sells daily tickets at a price of R60, 00 per ticket, which can be used instead of the attached tariff system. Inge has to travel 12 km per day.

The better option for her will be to (2) because she will save an amount of R (3) .

Possible Answers: use the tariff system | purchase a daily ticket | 12,50 | 12 | 11 | Taxi | Bus

1	
3	

2	
---	--

This image refers to question: 36

	R	N	H
B	BR	BN	1
Y	YR	2	YH
G	3	GN	GH

Question 36: Please Fill In The Blanks

6 marks

A local sporting goods store has a selection of balls. There are three different balls: rugby (R), netball (N) and hockey (H), in a selection of three different colours, namely blue (B), yellow (Y) and green (G).

Complete the following contingency table to represent all the outcomes of possible combinations: 1= (1), 2= (2) and 3= (3).

Possible Answers: YN | GR | BH

1	
3	

2	
---	--

Question 37: Text Input

3 marks

A 10 l bottle is filled with a hosepipe within 25 seconds. The rate of waterflow from the hosepipe is ... litres per second.

Give your answer as a decimal number rounded to two decimal places.

Question 38: True/False

2 marks

When Ruby leaves Cape Town in South Africa, the temperature at the airport is 17°C . When she lands at the airport in New York, in the United States of America, the temperature is 50°F .

The difference in temperature, in Fahrenheit, between New York and Cape Town is $12,6^{\circ}\text{F}$.

(To convert from $^{\circ}\text{C}$ to $^{\circ}\text{F}$, we use the formula $^{\circ}\text{C} \times \frac{9}{5} + 32 = ^{\circ}\text{F}$)

Question 39: Multiple Choice

4 marks

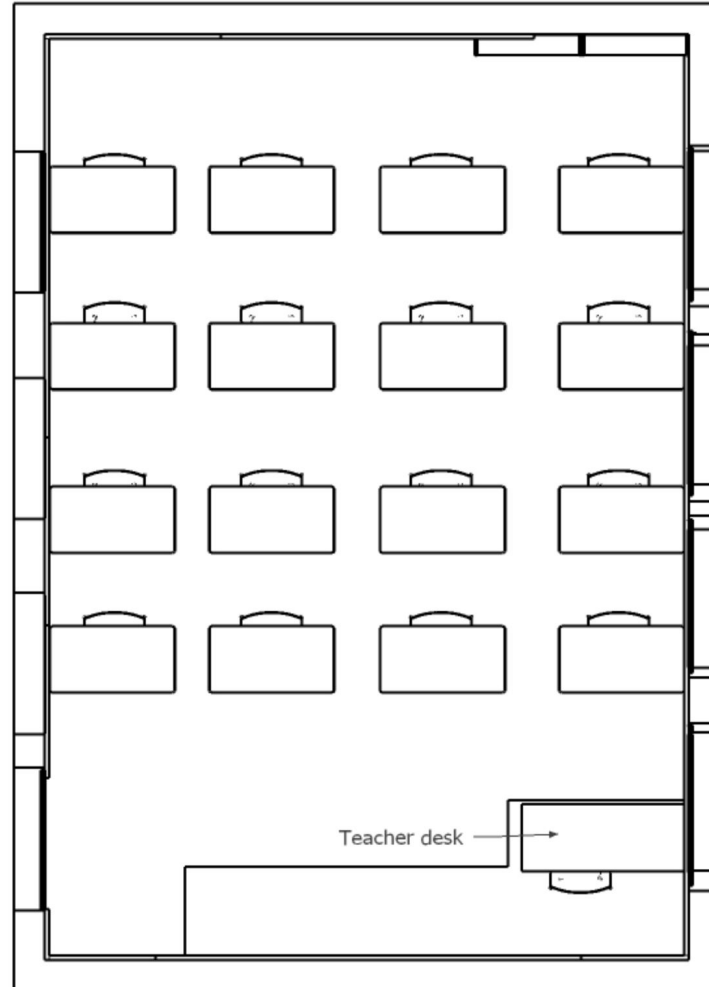
Adam weighs himself on his bathroom scale. The reading only reads 83,7.

The unit in which it is measured is:

- | | |
|----------|------------|
| A | kilograms |
| B | grams |
| C | tonnes |
| D | milligrams |

This image refers to question: 40

1:20



Question 40: True/False

2 marks

The width of the classroom on the original sketch of this floorplan is measured as 25 cm. This means that the actual width of the classroom is 500 m.

TRUE

FALSE

Total: 140 Marks