



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

VHEMBE WEST DISTRICT

MATHEMATICAL LITERACY

GRADE 11

TERM 2 ASSIGNMENT

MARKS: 50

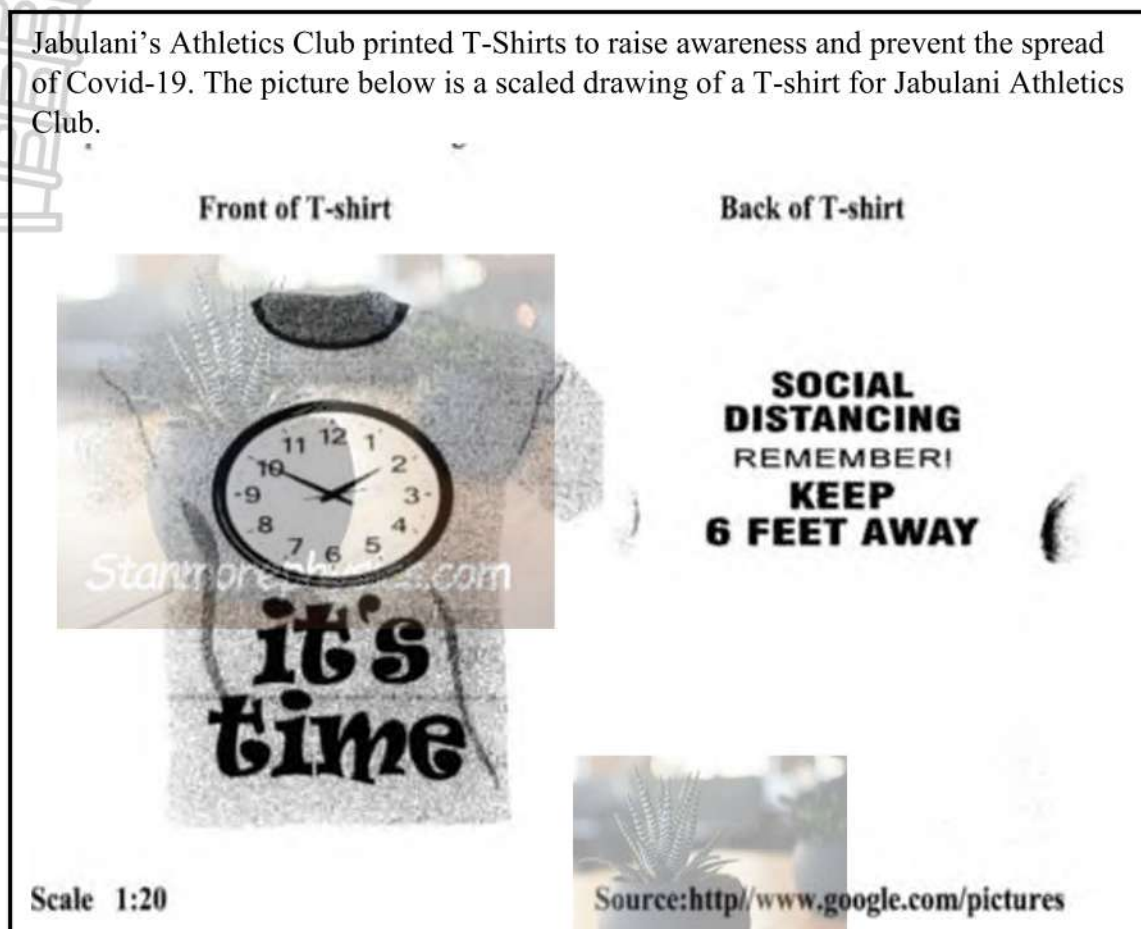
INSTRUCTIONS AND INFORMATION

1. This question paper consists of THREE questions. Answer ALL the questions.
2. Number the answers correctly according to the numbering system used in this question paper
3. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
4. Show ALL calculations clearly.
5. Round off ALL the final answers according to the context used, unless stated otherwise.
6. Indicate units of measurement, where applicable.
7. Maps and diagrams are NOT necessarily drawn to scale, unless stated otherwise.
8. Write neatly and legibly.

This question paper consists of 6 pages.

QUESTION 1

- 1.1 Jabulani's Athletics Club printed T-Shirts to raise awareness and prevent the spread of Covid-19. The picture below is a scaled drawing of a T-shirt for Jabulani Athletics Club.



Study the diagram above and answer the questions that follow:

- 1.1.1 Write down the time shown on the T-Shirt using the 24-hour format if it represents the time in the afternoon (2)
- 1.1.2 Calculate the number of letters and digits needed to print the logo on the back of 5 T-Shirts. (2)
- 1.1.3 Explain the meaning of the scale in the above drawing (2)
- 1.1.4 Convert 6 feet to meters. NOTE: 1 foot = 0,3048 m. Correct answer to two decimals. (2)
- 1.2 Sinthumule Crafts paint T-Shirts at a cost of R3,50 per letter and per digit with a spread rate of 2,4 ml per 3 letters.
- 1.2.1 Determine the cost of painting 15 letters. (2)
- 1.2.2 Calculate how many millilitres of paint is required to print 800 letters. (2)

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QUESTION 2

2.1 Study the payslip for Mr Rajesh Gowda and answer the questions that follow.

MONTHLY PAYSリップ FOR RAJESH GOWDA

ELS Electronics and security 17 Doom Street Grants town 5287 Tel: 030 598 157 cell:077 815 1025 Fax/mail: elselectronics@security.co.za			
Payslip for January 2021			
Employee Name: Rajesh Gowda		Paid Days: 30	
Gender: Male		Leave : 00	
Occupation: Installer		Payslip NO.: 48	
Earnings	Amount	Deductions	Amount
Basic	R10 000	Salary advance	R1 000
Overtime hours	50	PAYE	R1 290
Overtime Rate	R75	UIF : 1%of Total Earnings	R137.50
Overtime Payment	R3 750	Other deductions	-
Total payment	R13 750	Total deductions	A
Net pay	R11 322.50		

- 2.1.1 What is the difference between an employer and employee? (4)
- 2.1.2 Calculate the value of A. (2)
- 2.1.3 Show by calculations how the overtime payment amount of R3 750 was calculated. (2)
- 2.1.4 Define the term “net pay” according to the given context. (2)
- 2.1.5 Calculate the PAYE amount as a percentage of the total payment amount. (4)
- 2.1.6 State ONE benefit of contributing towards UIF. (2)

2.2

Mrs Baloyi owns a small bakery. She bakes circular birthday cakes and she uses the recipe below.

Recipe: 23 cm round carrot

Serving: 8

Preparation: 25 minutes

Cooking: 1 hour 30 minutes

Pre heat oven to 170°C

Ingredients

340g flour

10 ml cinnamon

5ml sugar

2,5ml nutmeg

5ml Bicarbonate

10ml baking powder

5ml salts

4 eggs

200ml sunflower oil

225g brown sugar

125ml golden syrup

500g carrot grated

60g pecan nuts

100g icing butter

125g cream cheese

500ml icing sugar

5ml lemon juice

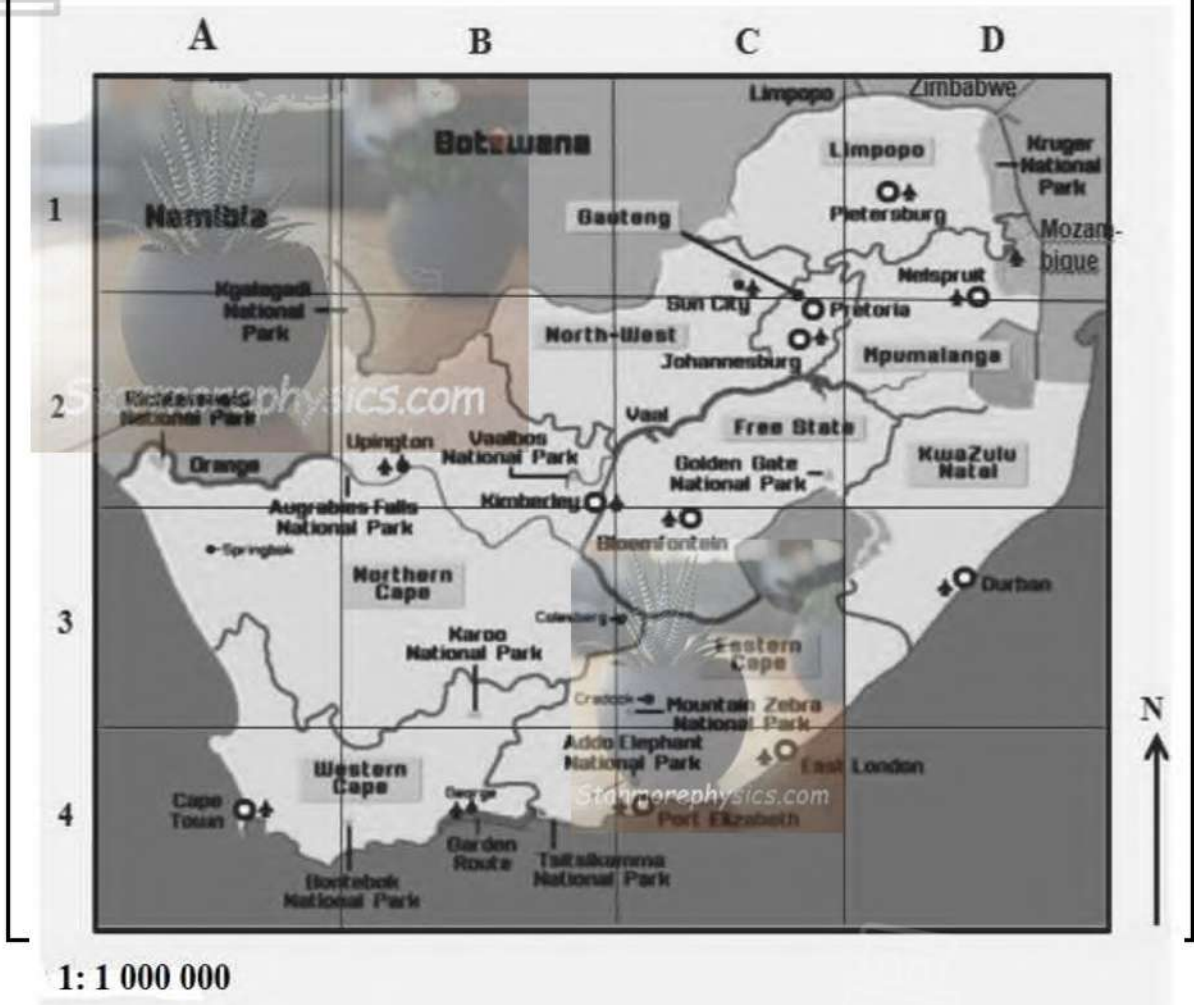
Study the recipe above and answer the questions that follow.

- 2.2.1 Convert the total mass of flour, brown sugar and carrot to kilograms (kg). (2)
- 2.2.2 Write down the simplest ratio of golden syrup to lemon juice. (2)
- 2.2.3 Mrs Baloyi shares the recipe with her sister who lives in Australia. Her sister uses the oven that only has degree Fahrenheit readings. Convert 170° to degree Fahrenheit. You may use the following formula: $^{\circ}F = ^{\circ}C \times 1,8 + 32^{\circ}$ (3)
- 2.2.4 Mrs Baloyi starts preparing to bake at 09:10. At what time will the cake be taken out of the oven? (3)

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QUESTION 3

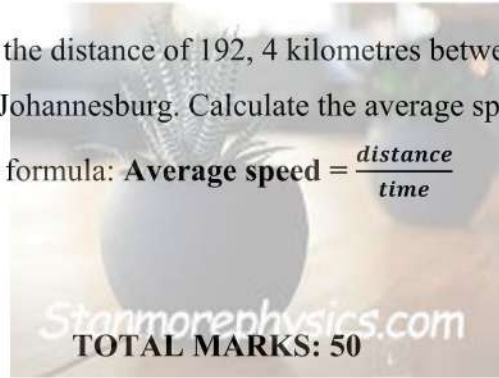
3.1 Below is the map of South Africa and parts of Namibia, Botswana, Zimbabwe and Mozambique. The map shows the major parks found in South Africa.



Use the map above to answer the questions that follow.

- 3.1 Write down the grid reference for Kruger National Park. (2)
- 3.2 In which compass direction is Cape Town from Durban? (2)
- 3.3 Which National Parks are situated in the Western Cape? (2)
- 3.4 Mpho measured the distance from Sun city to Johannesburg on her map and found it to be 17,4 cm long. Use the given scale to calculate the actual distance in kilometres. (3)

3.5 It took Mpho 30 minutes to fly the distance of 192, 4 kilometres between Pilanesberg National Park and Johannesburg. Calculate the average speed of the aircraft in kilometres per hour. Use the formula: **Average speed** = $\frac{\text{distance}}{\text{time}}$ (3)



[12]

