SUCCESS ACADEMIC FOUNDATION OF UGANDA (SAFU) P.7 END OF TERM I EXAMINATION, 2024



MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

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Read the instructions carefully:

- This paper is made up of Sections A and B.
- Section A has 20 short-answer questions. (40 marks)
- Section B has 12 questions. (60 marks)
- Answer All questions. All answers to both Sections A and B must be written in the spaces provided.
- All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil
- Unnecessary alteration of work may lead to loss of marks.
- Any handwriting that cannot be read may lead to loss of marks.
- Do not fill anything in the box indicated For Examiners' Use Only.

FOR EXAMINERS' USE ONLY

Qn. No.	MARKS	Final Mark
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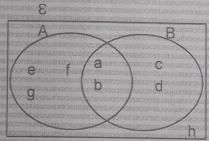
Head Offices Kampala on Gadafi Rd. Plot 201, Opposite Galeway Bus Garage, Tel: 0774-488552 / 0705-004736, Branches: Mityana Taxl park on Kamusese building Tel:0753396322, Tororo Tel.0782520834 / 0705508135, Bweyogerere: Busega stage 0773055943, Buloba, Kamuli



SECTION A: (40 MARKS)

Questions 1 to 20 carry two marks each.

- 1. Work out: 23 10
- 2. Express 114 in Roman numerals
- 3. Work out : 3 + 1
- 4. Use the Venn diagram below to answer the question that follow.



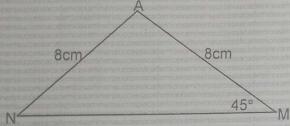
Find n(A B)

- 5. Arrange the following integers in a descending order: -7, +4, 0, -3, +2 +6
- 6. Simplify: 3y + 4k 2y + 4y

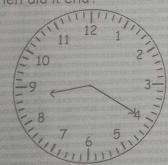
7. How many ¼ litres bottles of sanitizer can be filled in a 5 litre jerrycan placed out side the examination room?

8. Find the square root of 0.16.

9. Find the size of angle NAM in degrees.



10. A 11/4 hour mathematics lesson started at the time shown on the clock face below, when did it end?

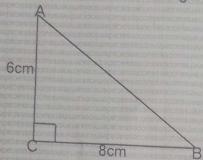


11. Increase sh. 1400 by 20%

12. Anna is thrice as old as Munaku, if the difference of their ages is 24 years, how old is Anna?

13. Using a ruler, pencil and a pair of compasses only. Construct an angle of 30°.

14. Find the length of AB in the figure below.

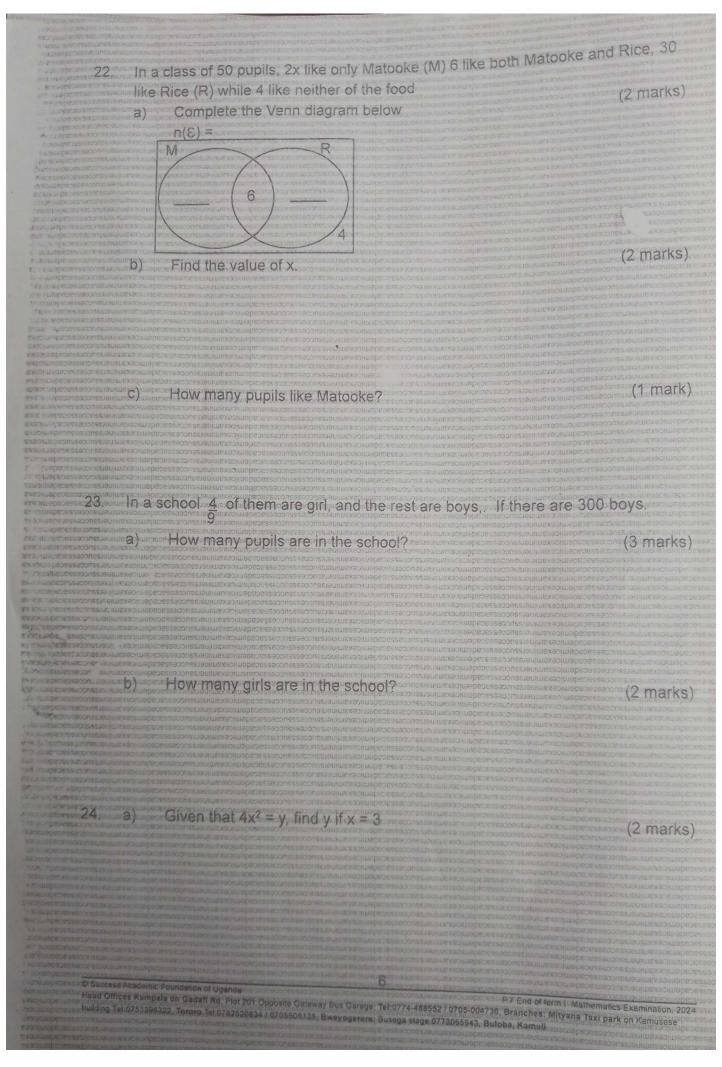


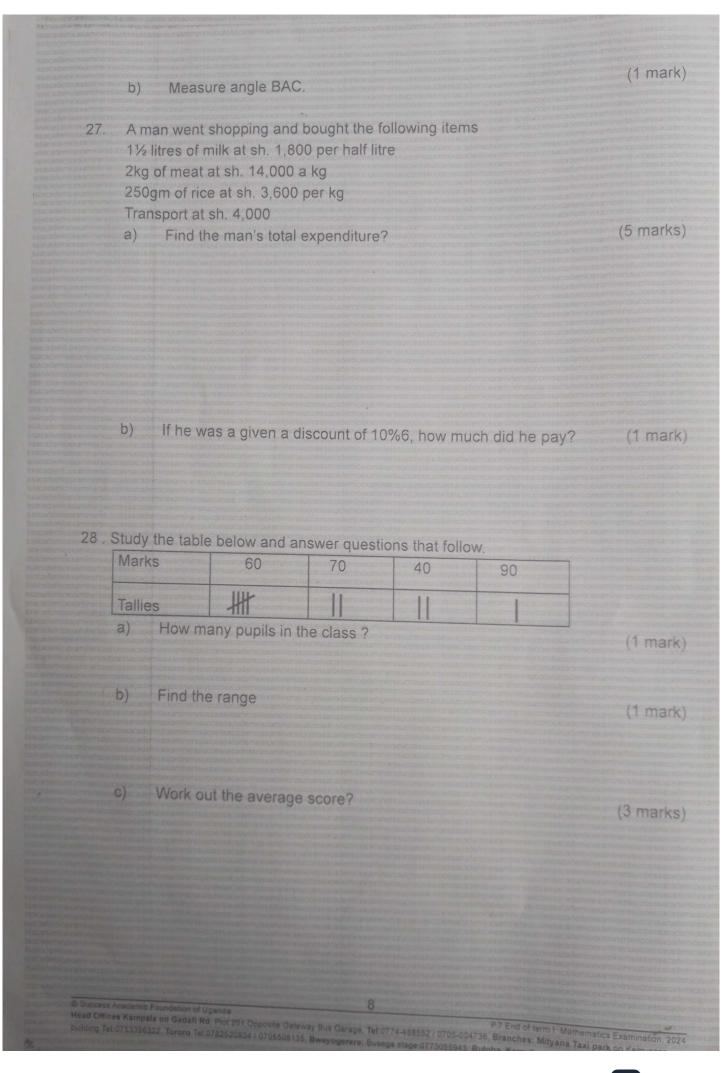
15. Find the next number in the sequence 1, 3, 6, 11, 18

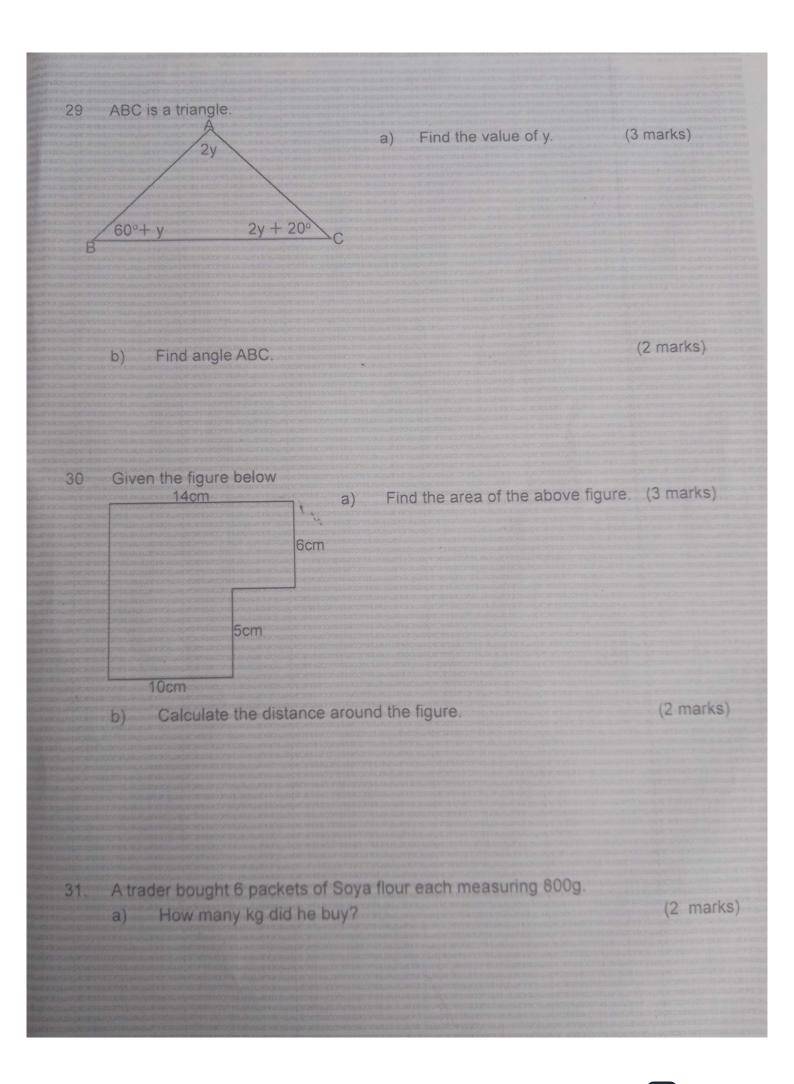
16. Change 14 to binary base.

17. A dice is tossed once, what is the probability of an even number showing up?

Change 72km/hr to metres per second. Work out: $(30 \times 15) + (45 \times 30)$ using distributive property only. 20. Find the mean of 2y, 4, 3y and 6. SECTION B. Fill in the missing number in the box and then write in words. + 123 = 2023 (2 marks) Draw the missing beads on the second threads to complete the subtraction b) statement shown below. (2 marks) Write the subtraction statement shown on the threads above. (1 mark) Head Offices Kampala on Gadali Rd. Piol 201 Opcoste Gateway Bus Carage, Tel:0774-468552 / 0705-004736, Branches, Mityana Taxi park on Kamusese building Tel:0754395322. Tororo Tel 0782520334 / 0705508135. Bweyogorere: Busega stage:0773055943, Buloba, Kamuli

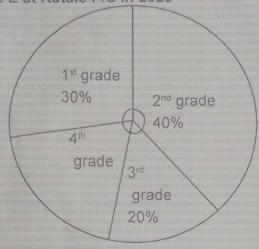






b) If the cost of two packets is sh. 28,000, how much 7 packets cost?(2 marks)

32. The pie - chart below shows the grades obtained by 180 candidates who sat for their P. L. E at Katale P/S in 2020



a) Find the percentage obtained by the 4th grade.

(1 mark)

b) Express the sector for grade two in degrees

(1 mark)

c) How many pupils were in grade one?

(1 mark)

d) How many more pupils were in grade two than grade one?

(2 marks)