19. Pauline porrowed sh.200,000 from a SACCO for a period of 2 years at an interest rate of 10% per month. Calculate the simple interest paid after the 2 years.

 A complete full jerrycan contains 20 litres of milk. When 20 cupfulls are drawn out, it becomes a full. Find the number of cupfulls that fill a 20 litres of milk.

MASAKA CITY EXAMINATIONS BOARD MOCK EXAMINATION- 2024

MATHEMATICS

Time allowed: 2hours 30 minutes

INDEX NUMBER	NASBOSI SUSINER			
Candidate's Name: .				
Candidate's Signatur	e:			
School Random Num	ber:			
Read the following in		YOR	EXAMIN	ERS' USE ONLY
1. This paper has two secti	ons: A and B. Section A section B has 12 questions.	Qn. No.	MARK 5	EXR'S INITIALS
and the second s		No		
 Answer all questions. A Sections A and B must be si 		1-5		
provided. 3"		6-10		
3. All working must be done using a blue or black		11-15		
Ball point non or ink Any v		16-20		:: - T-5-55

- 1. Multiply 23 by 2
- 2. Work out 33 + 30

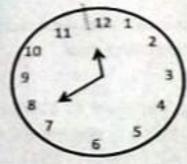
A man got CDIX votes in an electron, express the number of votes in H
Arabic numerals.

4. Given that A = {The first 4 even numbers} B = { 2,3,4,5,8} Find n(AU

Workout the sum of: -4 and *9

6. Work out

7. A birthday party ended in the evening at the time shown on the clock face below

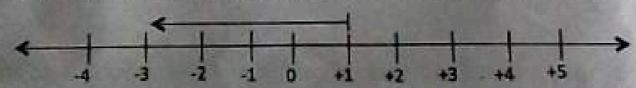


Express the evening time in the 24-hour clock system.

 Using a ruler, a pencil and a pair of compasses only, construct an angle whose complement is 30°. A piece of string 88m long fits exactly round a school circular swimming pool. Find the radius of the swimming pool.

12. Simplify: 2(4x-3)-4(x-2)

13. Find the additive inverse of the integer shown on the number line below.



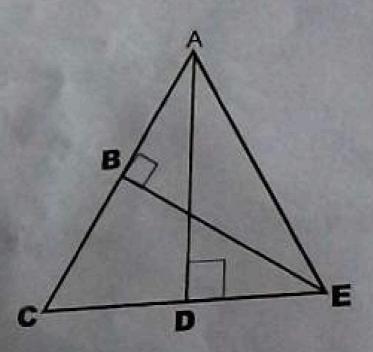
After selling an item for Sh. 72000, a shop attendant realized he had made a loss of 10%. Find the cost price of the item.

15. A tray contains 30 eggs. If 25 of them are good and the rest are bad, Find the probability of randomly selecting a bad egg from the tray.

16. Solve: 3"" = 27

A lady bought 80 bags of sugar of 50 kilograms each for her school.
 Express the total number of Kilograms she bought as tonnes.

Carefully study the figure below and answer the questions.



18. Given that AC = 30cm, BE =18cm and CE=45cm, Find the length of AD

SECTION B: 60 MARKS

Answer all questions in this section

Marks for each question are indicated in brackets

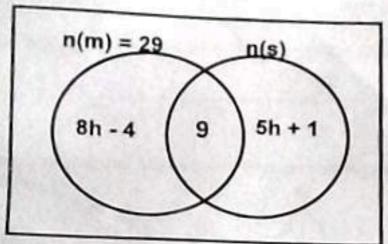
(02 Marks)

(03 Marks)

22. a). Find the arithmetic mean of 5(x+1) and 2x

(02 Marks)

23. The venn diagram below shows the number of pupils who like, Math (M) and Science (S) in LM Junior school. Study it carefully and answer the questions that follow.





a) Find the value of h

(02 Marks)

b) Calculate the number of pupils who like only one subject.

(02 Marks)

24. A motorist covered a distance of 300km in 3 hours traveling from Kiryandongo to Gulu, he rested for half an hour and then continued to Kitgum covering a distance of 180km at a speed of 120km/hr.

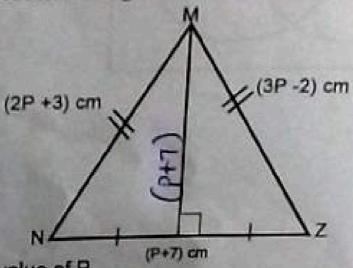
a) Calculate the distance from Kiryandogo to Kitgum.

(01 Marks

b) Calculate the motorist average speed for the whole journey.

(Od Marks)

25. Study the isosceles triangle below and answer the questions that follow.



(a) Find the value of P

(02 Marks)

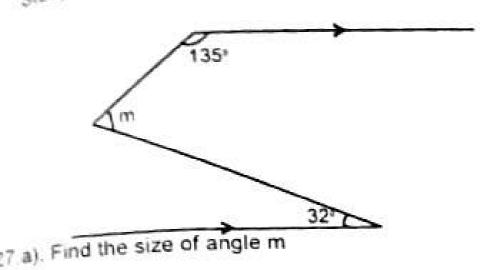
(b) Calculate the area of the triangle MNZ

(03 Marks)

25. The median of four consecutive odd numbers is 24. Find their sum

(05 Marks)

Study the parallel lines below and answer the question 27.



(02 Marks)

b). The interior angle of a regular polygon is 100° more than its exterior angle. Find the size of the interior angle.

(03 Marks)

28. Suzy went shopping with twenty five thousand shillings and bought the following items as shown in the table below. (05 Marks)

Complete the table

		Unit cost	Amount	
Item	Quantity	On a	+	
Maize flour	210	Sh.3400	Sh	
	2 kg	Sh	Shs 5250	
Rice	1 kg			
Cooking oil	600 ml	Sh 5000 per litre	Sh	
Sugar	kgs	Sh 3100 per kg	Sh	
			Sh 21250	
Total				

29. (a). Using a pair of compasses, a ruler and a sharp pencil only, construct a quadrilateral PQRS where PQ = 5.5cm, QR = 5 cm and angle SPQ = 60° (04 Marks)

(b). Find the perimeter of the figure

(01 Marks)

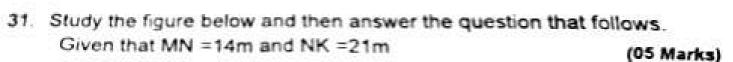
Paul is 4 times as old as Jane. Phillip is 20 years older than Jane. The total age of Jane and Phillip is equal to Paul's age.

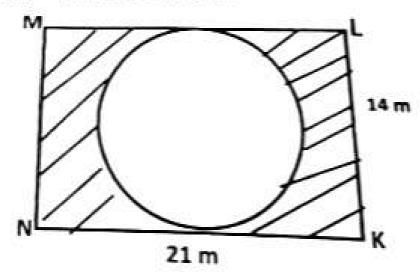
a). Find the age of Paul

(03 Marks)

b). Find the value of base n, if 21 = 13.

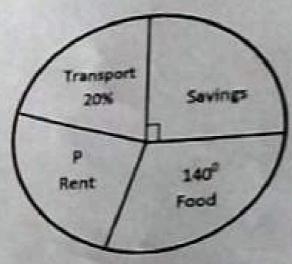
(02 Marks)





Calculate the area of the shaded part of the figure below

32The circle graph below shows lady Liz's monthly savings and expenditure. Study it carefully and answer the questions that follow



(a). Find the value of P in degrees

(03 Marks)

(b). If lady LIZ spent shs164,000 more money on food than on rent, Find her monthly income.

(02 Marks)

