

Describe the steps you would follow to carry out the experiment above.

.....

.....

.....

.....

.....

.....

.....

55. a) Give any two natural changes in the environment that take place under moist conditions.

i.

ii.

b) State any one way drought can affect crop production in villages.

.....

c) Give any one way of managing drought conditions in an area.

.....

END



HILLSIDE PRIMARY SCHOOL
MID-TERM TWO EXAMINATIONS

2025

MATHEMATICS (SET SIX)

Time Allowed: 2 Hours 30 Minutes

Index No.

--	--	--	--	--	--	--	--	--

Candidate's Name.....Stream.....

Candidate's Signature.....

EMIS No.....

District Name.....

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**.
Section A has 20 questions and Section B has 12 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** working must be done using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked
4. No calculators are allowed in the examination room.
5. Unnecessary changes in work may lead to loss of marks. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: **"For Examiners' Use Only"** and those inside the paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1- 5		
6- 10		
11- 15		
16- 20		
21- 22		
23- 24		
25- 26		
27- 28		
29- 30		
31- 32		
TOTAL		

SECTION A: 40 MARKS

Answer all questions in this section

Questions 1 to 20 carry 2 marks each

1. Find the difference of: 42 and 56.

2. What number has been expanded to give:
 $5000 + 80 + 0.04 + 0.0001$

3. How many twenty eighths are equivalent to three quarters.

4. A school team scored the following goals in a tournament: 4, 4, 2, 5, 3, 0
4 and 5. Find the mode of the goals.

5. Draw a Venn diagram showing that pupils (P) and teachers (T) are part of
the school(S).

6. Write all prime numbers between 90 and 100.

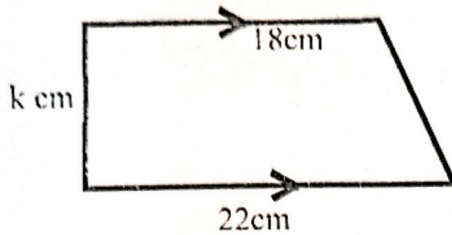
7. Solve for n : $\frac{2}{3}n + 5 = 1 + n$

8. Work out: -2×-3 on a number line.

9. The price of a shirt was increased by 20%. If its new price is sh. 60,000.
Find the old price.

10. The school bursar was 27th from either side of the queue at Stanbic bank.
How many customers were in queue?

11. The figure below has an area of 100cm^2 . Find the value of k .



12. 12 jackets take 2 hours to dry in hot sunshine. How long will 24 jackets take if they are exposed to the same sunshine at the same time?

13. A motorcyclist covers a distance of 560km at a speed of 80km/hr. How many hours more will he use if he drives at 40km/hr. to cover the same distance.

14. Solve for f : $6^{2f+1} \div 36 = 1$

15. Through what angle does a minute hand of a clock move in 50 minutes.

16. Use distributive property to work out: $(3.6 \times 23) + (3.6 \times 7)$

17. Work out:

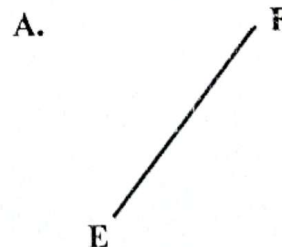
	Kg	g
	8	403
-	2	627
	<hr/>	
	<hr/>	

18. Express 149 in roman numerals.

19. Tell the afternoon time shown on the clock face.



20. Using a ruler, a pencil and a pair of compasses only construct a line through a point A. parallel to line EF.



SECTION B: 60 MARKS

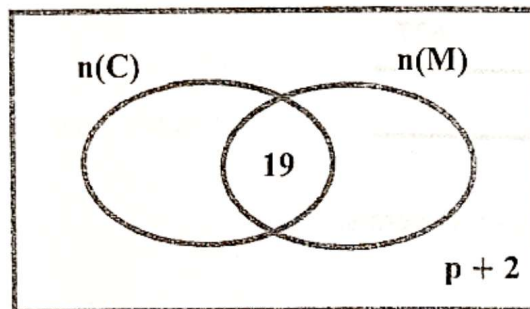
Answer all questions in this section

Marks for each question are indicated in the brackets

- 21.a) At a party, 35 children ate chicken (C), $(3p - 3)$ children ate meat (M) only, 19 ate both. $(p + 2)$ did not eat any of the food.

a) Complete the Venn diagram below.

(2 marks)



- b) Find the value of p given that the number of children who ate meat only was twice the number of those who did not eat any of the food.

(3 marks)

22. Two bells are rung at intervals of 30 minutes and 45 minutes for lower and upper primary classes respectively.

a) After how many minutes will the two bells be sounded together?

(3 marks)

- b) If they are sounded together for the first time at 7:30 a.m. At what time will the two bells sound together for the second time? **(2 marks)**

23.a) Solve and write the solution set for: $2 - 3m < 17$. **(3 marks)**

- b) Clara is four years younger than Christine. Chloe is two years younger than Clara. If the age of Chloe and Clara is 42, how old is Clara?

(3 marks)

24. At end of year party, adults were served with 5 pieces of chicken each, pupils were served with 4 pieces of meat each and each person who attended was served with a bottle of soda. If 140 pieces of chicken and 224 pieces of meat were served, how many people attended the party.
(3 marks)

b) If a crate of soda contains 24 bottles and costs sh. 21,600. How much was spent on soda?
(2 marks)

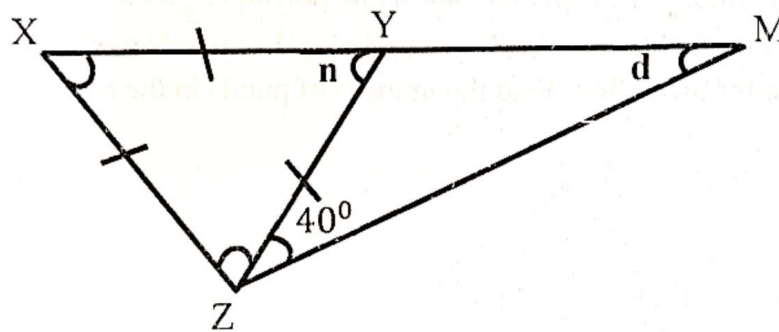
25.a) Find the difference of the place value of 3 and value of 7 in the number 430,2675.

(2 marks)

b) Given that $35_m = 26$. Find the unknown base m .

(2 marks)

26. Study the figure below carefully:



a) (I) Find the value of angle n .

(2 marks)

(II) Find angle d .

(2 marks)

- b) The exterior angle of a regular octagon is $2k - 5^\circ$. Find the value of k .
(2 marks)

27. In a P.7 class, $\frac{1}{4}$ of the pupils took white porridge, $\frac{1}{3}$ took milk, $\frac{1}{2}$ of the remainder took black tea and the remaining 130 pupils took brown porridge for break first. Find the number of pupils in the class. (5 marks)

28. Moses drove a car from town A to town B at a speed of 90km/hr. in 3 hours. He rested at town B for an hour and drove back at an average speed of 54km/hr. Calculate Moses's average speed for the whole journey. (5 marks)

29.a) Using a pair of compasses, ruler and a very sharp pencil only, construct a triangle XYZ where line XY = 5cm, angle XYZ = 105° and line YZ = 4.5cm.

(4 marks)

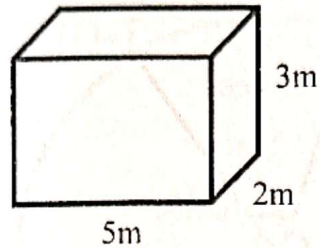
b) Measure line ZX _____ (1 mark)

30. The table below shows the denominations, number of notes and amount.
Use it to complete the blank spaces correctly with correct working.

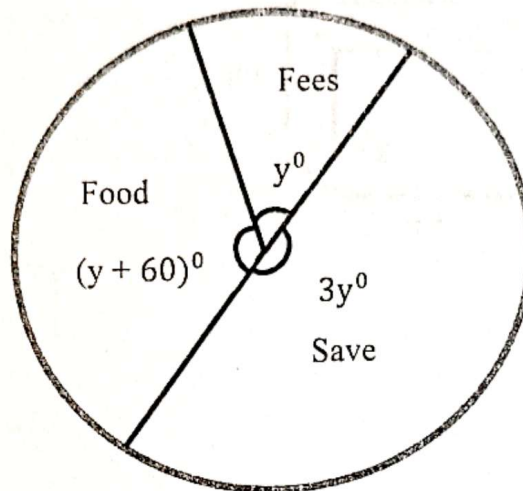
Denomination	Number of notes	Amount
Sh. 1000	30	Sh. _____
Sh. 2000	10	Sh. 20, 000
Sh. 5000	_____	Sh. 90,000
Sh. _____	7	Sh. 70,000
Sh. _____	12	Sh. _____
Total		Sh. 450,000

(5 marks)

31. How many 5 litre jerrycans of milk can be obtained from a rectangular tank of 5m by 2m by 3m? (4 marks)



32. The pie chart below shows how Mr. Byarugaba spent his monthly salary of April. Study and use it to answer questions that follow.



a) Find the value of y in degrees.

(2 marks)

b) If he saved sh. 300,000 more on than he spent on food, find how much he spent on fees.

(3 marks)

END