SHEEMA MUNICIPALITY

MP's EDUCATION ADVISORY

COMMITTEE **PRE - PRIMARY LEAVING**

EXAMINATION 2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature:.....

District ID No. | | | | |

Read the following Instructions carefully.

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** Sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **16 printed pages** altogether.
3. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
4. **All** answers must be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work may lead to **loss** of marks.
7. Do not fill anything in the table indicated: **"For Examiners' Use only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S 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

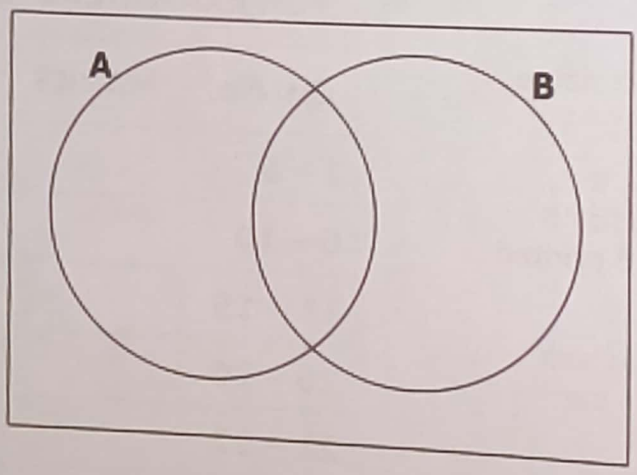
*Answer **all** questions in this Section*

*Question **1** to **20** carry two marks each*

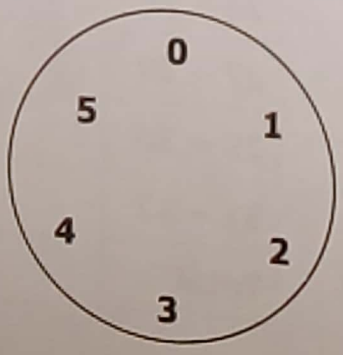
1. Workout: 34 x 2 =

2. Write XCIX in Hindu Arabic numerals.

3. Shade the region representing $(AUB)^{I}$



4. Using a dial multiply 2 x 4 = _____ (finite 6)



5. Find the next two numbers in the sequence

1, 3, 6, 11, 18, _____, _____

6. Solve for **P**: 10 – P = 9

7. A man sold a goat at shs. 120,000 making a profit of shs. 15,500. How much did the man buy the goat?

8. If – – Evaluate

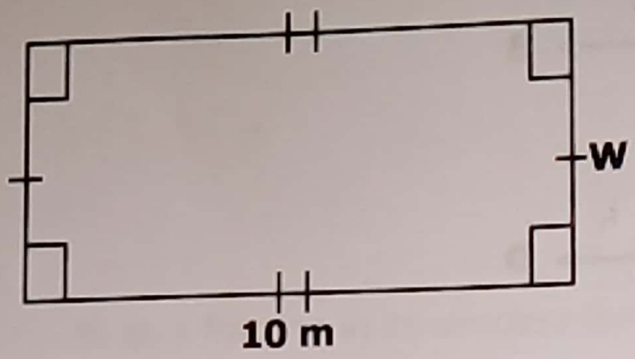
9. A driver started a journey at 10:15am and ended at 12:15pm. How long did he take to cover the journey?

10. Using a pair of compasses, a ruler and a pencil only, bisect the acute angle AOB

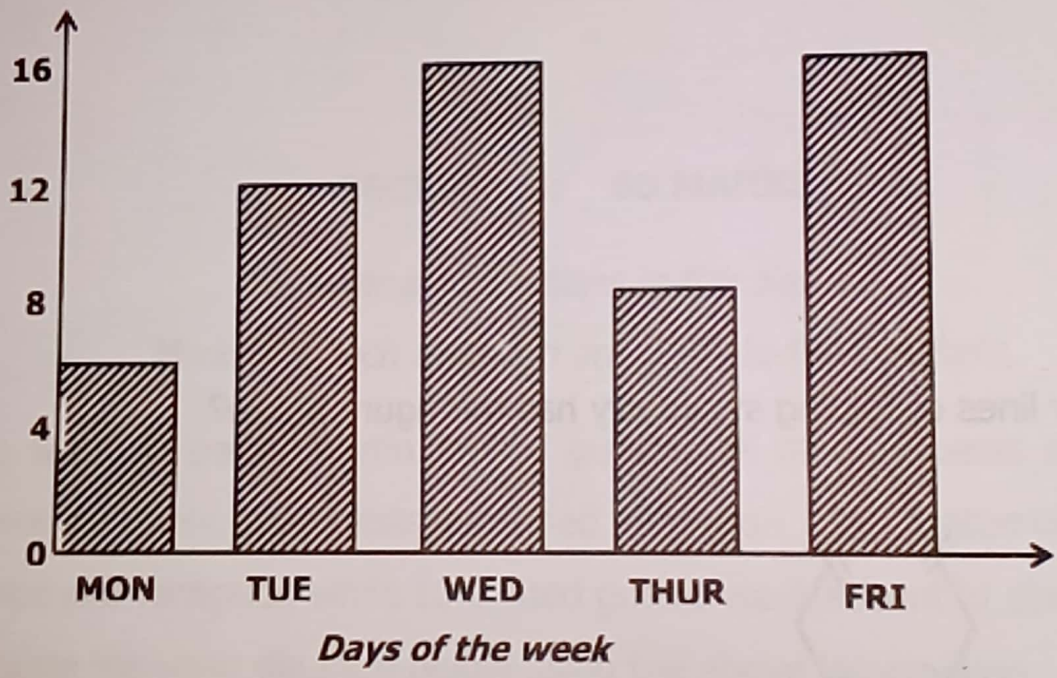
11. In a line, poles are placed 20m apart. Find the distance from the first pole to the 11^{th} pole.

12. Find the simple interest for a loan of shs. 120,000 borrowed for 4 months at a rate of 5% p.a.

13. The perimeter of the rectangle below is 36m. Find the value of **W**.



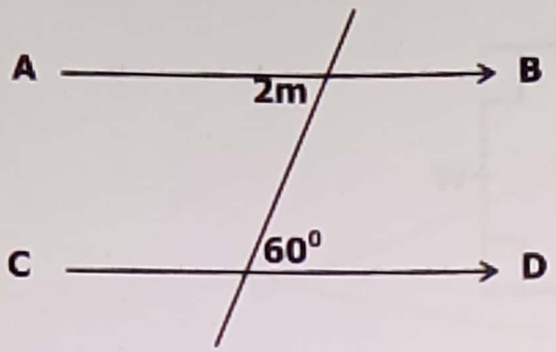
14. The graph below shows the number of mangoes sold in a week.



a) How many mangoes were sold on Tuesday?

b) On which days were the same number of mangoes sold?

15. Given that line AB is parallel to line CD, Find the value of M in degrees.



16. Change 2.5 kg to grammes.

17. How many lines of folding symmetry has the figure below?

18. Find the square root of /

19. Find the number that has been written in standard form as

20. Change – % as a fraction in its simplest form.

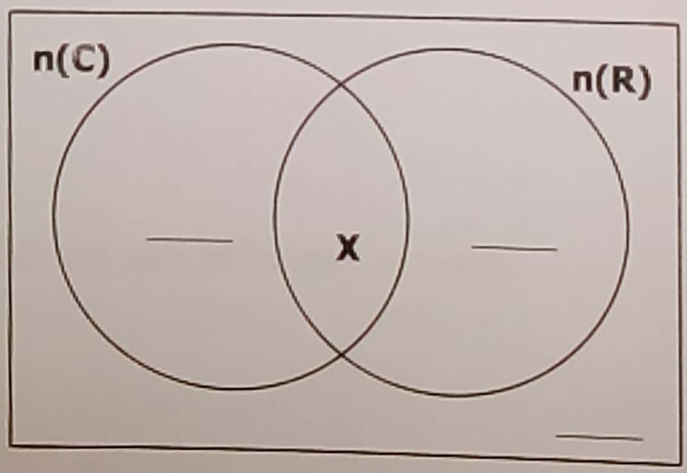
SECTION B: 60 MARKS

*Answer **all** questions in this Section.*

Marks for each question are indicated in brackets.

21. At a wedding party, Martin invited guests, 3X of the guests attended church service (C) only. 100guests attended reception (R), X attended both church service and reception while 10 invited guests were absent at both places.

(a) Complete the venn diagram below using the above information. (03 marks)



(b) If 80 invited guests attended church service, find the value of X. (02 marks)

22. A man went to the market and bought the following items

500g of salt at shs. 2,000 per kg

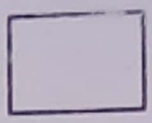
0.75 kg of meat at shs. 10,000 per kg

1 ½ kg of sugar at shs. 3,000 per kg.

15 tomatoes at shs 1,000 for every 3 tomatoes.

(a) Find the man's total expenditure (05 marks)

(b) If the man bought all items from one person and was given a discount of 10%. How much money did the man pay? (01 mark)



23. The interior angle of a regular polygon is 4 times its exterior angle.

(a) What is the size of each exterior angle of the polygon? (02 marks)

(b) Name the polygon (02 marks)

(c) Calculate the sum of its interior angles. (01 mark)

24. The timetable below shows a journey by a bus from town A to town E.

Study it and answer the questions that follow

TOWN	Departure	Arrival
A	0800hrs	
B	0945hrs	0900hrs
C	1120hrs	1100hrs
D	1410hrs	1300hrs
E		1800hrs

(a) What is the arrival time at town E in 12hour clock system? (01 mark)

(b) If town A is 280km from town E, calculate the average speed of the bus for the whole journey.

(03 marks)

25. a) Express 0.444..... as a common fraction. (01 mark)

b) In a school there are 3600 pupils and the ratio of boys to girls is 2:1. One day 20% of the boys and 25% of the girls were absent. Find the number of pupils who were present. (6 marks)

26. A teacher used 3, 4 and 7 digits to form a three digit number without repeating.

a) Write all the 3digit numerals formed that are greater than 400. (03 marks)

b) Work out the difference between the smallest and the biggest numerals formed from the above digits. (02 marks)

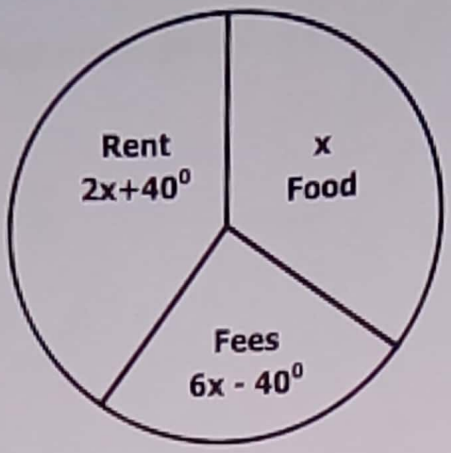
27. (a) Simplify: $\frac{\square}{\square}$ (03 marks)

(b) Workout: – – – (02 marks)

28. (a) Solve the inequality : ( ) (03 marks)

b) A boy is 18 years older than his sister. In 12yrs time their total age will be 72 years. How old is the sister? (02 marks)

29. The pie chart below shows how Mrs. Bogere spends her monthly salary



a) Find the value of X. (02 marks)

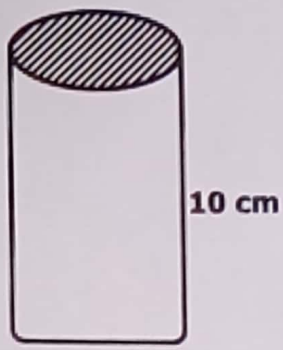
b) If she spends shs. 24,000 on rent, find Mrs Bogere's total monthly salary (03 marks)

30. a) Work out (02 marks)

	Weeks	Days
	8	6
+	2	5

(b) How many hours are in 7 days? (02 marks)

31. The circumference of the shaded part is 176cm.



(a) Calculate the diameter of the cylinder (use —) (02 marks

(b) Calculate the volume of the cylinder (use —) (02 mark

32. LMN are three towns. M is 600km North of town L and town N is 700km on a bearing of 135^0 from town L.

(a) Draw an accurate diagram showing the three towns. (Scale 1 cm to represent 100km) (04 marks)

(b) Find the shortest distance from town M to N. (01 mark)

END