SEEMA DISTRICT EXAMINATIONS BOARD

PRIMARY SEVEN ENTRANCE 2022

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Candidate's Name.....

Candidate's Signature.....

School Name: .....

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

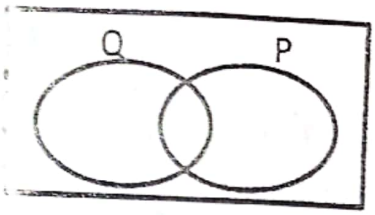
1. This paper has two sections; **A** and **B**. Section A has 20 short answer questions (40 marks) Section **B** has 12 questions (60 marks)
2. Answer **ALL** questions in Section **A** and Section **B**. Answers must be written in the spaces provided. No pieces of paper should be provided for rough work.
3. All answers must be written using a blue or black ball-point pen or ink. Only diagrams may be done in pencil.
4. Unnecessary changes in your work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill any thing in the table indicated; "For Examiners' use only" and boxes inside the papers.

FOR EXAMINERS' USE ONLY		
QN NO.	MARKS	NO
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

1. Workout 43 x 2

2. Write 2022 in words.

Shade (PUQ) complement in the figure below.



If a = 3, b = 5 and C = 4. Find the value of ab – ac.

5. Express 1 3/4 hours to minutes.

6. Convert 3/4 as decimal fraction.

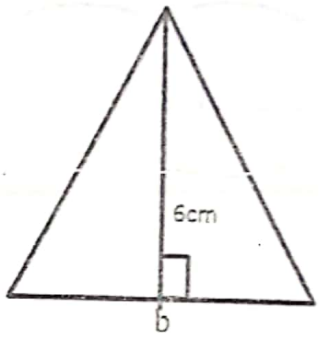
7. Construct an angle of 60° using a pair of compasses and a ruler only.

8. If ⚽ represents 25 balls. How many balls are represented by ⚽⚽⚽⚽

9. Find the sum of the next two numbers in the sequence.

2, 3, 5, 7, ____, ____.

10. The area of triangle below is 36 cm^2. Find its base.



11. Work out 3 + 4____(finite 5)

12. Simplify 4a – 5a + 6a .

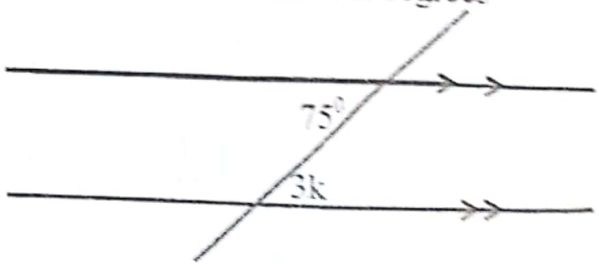
13. Increase 120kg in the ratio of 4:3

14. A woman bought a dress at sh.35,000 and later sold it at sh38,000. Calculate her profit.

15 Solve: 3p - 4 = 14.

16. Round off 85374 to the nearest hundreds.

17. Calculate the value of K in degrees



18. Simplify $^{-}4 - ^{-}7$

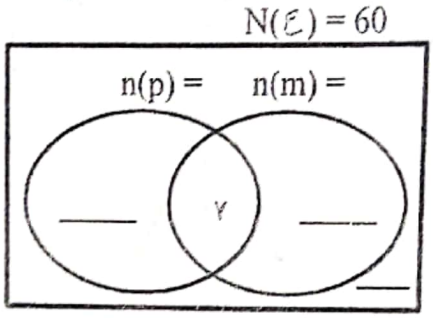
19. Derrick has bank notes numbered from AP004500 to AP004599. How many bank notes does he have?

20. Express 36km/hr in m/sec.

SECTION B.

21. In a class of 60pupils, 40pupils eat posho (p) 28pupils eat matooke (m), some pupils eat both matoke and posho, 3pupils do not eat any of the two kinds of foods.

a) Complete the Venn diagram below.



(3mks)

b) Calculate the value of Y.

(3mks)

c) How many pupils like only one kind of food?

(1mrk)

22. a) Find the square of 36. *(2mks)*

b) Simplify

Weeks	days
6	4
+ 1	5

(2mks)

23(a) A car travelled from Kabwohe to Masaká from 8:15 am to 11: 15 am at an average speed of 60km/hr.

a) How long did the car take to travel from Kabwohe to Masaka. *(2mks)*

b) Calculate the distance travelled for the whole journey. *(2mks)*

24. In a school of 120 pupils, 60% are girls and the rest are boys.

a) How many girls are in the school? *(2mks)*

b) How many more girls than boys are in the school? *(3mks)*

25. Kapongoso went for shopping and bought the following items.

- 3kg of rice at sh.4800@ kg
- $1\frac{1}{2}$ kgs of meat at shs.12000
- 5 packets of sweets for sh.3000.

a) Workout her total expenditure. *(3mrks)*

b) if he had gone with a fifty thousand shilling note, how much was her change? *(2mrks)*

26. (a) Using a ruler, a sharp pencil and a pair of compasses only construct a triangle OPQ, where OP =7cm angle POQ =60°, Angle OPQ = 45°. *(4mrks)*

b) Measure length OQ. *(1mrk)*

27. Kamu, Deus, Jacob shared shs. 90,000 in the ratio of 2:3:4 respectively.

a) How much money did each get? *(4mrks)*

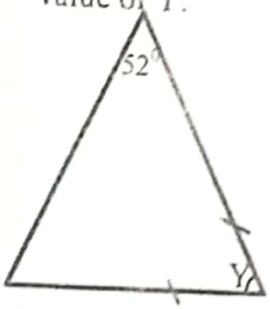
b) How much money did Jacob get than Kamu? *(1mrk)*

28 (a) Ahabwe is 10 years older than Agaba and their total age is 24 years.

How old is each now? *(3mrks)*

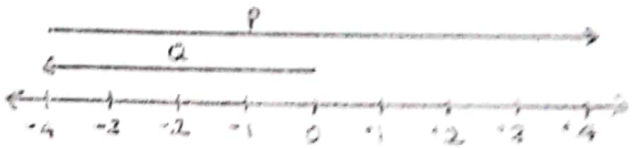
b) Solve $3x + 2 = x + 10$ *(3mrks)*

29. (a) In the figure below, find the value of Y. *(3mrks)*



b) Find the size of P *(2mrks)*

30. Study the number line below and use it to answer the questions that follow.



a) Write down the integers represented by each of the arrows.

P = _____

Q= _____

(2mrks)

b) Work out 4 - ⁻6. Using a number line.

(2mrks)

31. Madam-Jenny drove her premio car for 4 hours to travel from her home to town at a distance of 360km and returned through the same distance in 5 hours.

Calculate her average speed for the whole journey.

32. In Mabunu primary school, two bells are used to change lessons for lower and upper primary classes. If bells ring at intervals of 30 minutes and 40 minutes respectively.

a) After how many hours will they ring together again?

b) If they are both rung at 8:30 a.m. at what time will they ring together again?

End.