BMMK EXAMINATION BOARD

PRE – PRIMARY LEAVING EXAM, 2024

Knowledge Is The Best Weapon

MATHEMATICS

TIME ALLOWED: 2HRS 30 MINUTES

RANDOM No..						Personal No.		

CANDIDATE'S NAME: _____

CANDIDATE'S SIGNATURE: _____

DISTRICT ID No: | | | | |

Read the following instructions carefully.

1. This paper has two sections; **A** and **B**
2. Section **B** has 15 questions (60marks)
3. Answer **ALL** questions in section **A** and Section **B.** answer must be written in the Space provided.
4. All answers must be written using a blue Or black ball-point pen or ink. Only diagrams may be done in pencil.
5. Unnecessary alteration of work may lead to loss of marks
6. Any hand writing that cannot easily be read may lead to loss of marks

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

SECTION A

1. Work out 14×2

2. Subtract $\frac{1}{2} - \frac{1}{3}$

3. Given that k= (rectangular numbers less than 25)
   Find n(k)

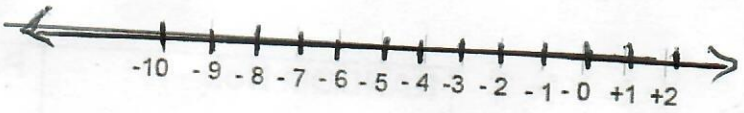
4. Simplify 5k - 2n +k +5n

5. Find the difference of the next two numbers

   12, 10, 8, 6, 4, _____, _____

6. Write 70077 in words

7. Work out 3×-2 using a number line below



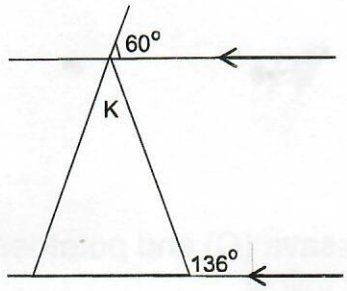
8. A thirty minutes lesson ended at 10:20a.m when did it start?

9. Using a pencil, a ruler and a pair of compasses only construct an angle of 20°

10. The cost of 4 pens is sh.3200.What is the cost of 3 similar pens?

11. If $\frac{6x1x\,n}{6} = 5$
find the value of n

12. Study the diagram below and use it to answer the following questions.
Find the value of K

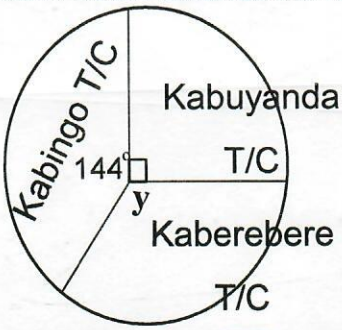


13. Simplify 5 -2 (K-1)

14. The exterior and interior angles of a regular polygon are in the ration of 2:3 respectively. Calculate the size of each exterior angle.

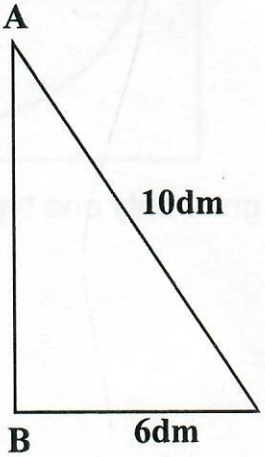
15. Joan is the 15th girl from either side of the line. How many girls are in the line?

16. The Pie chart below shows how Isingiro district distributed text books in town council schools



If Kabuyanda received 1800 text books. How many were they altogether.

17. Find the area of the figure below



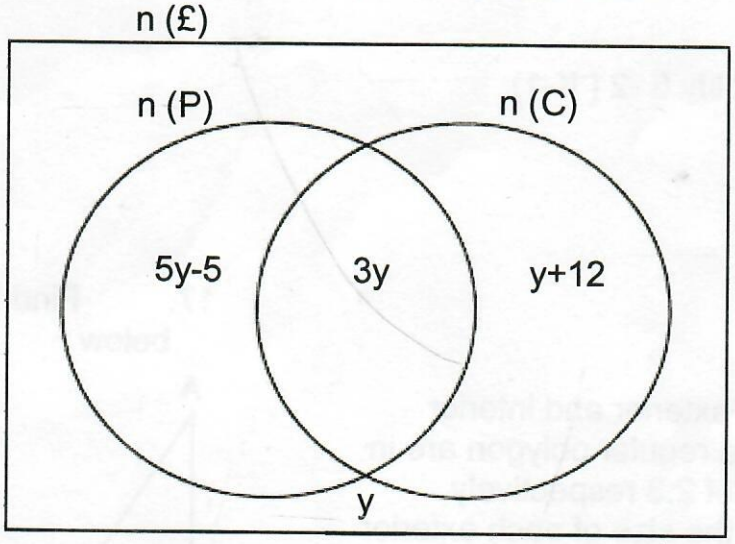
18. A Motorist covered a certain distance at a speed of 60 km/hr. If he spent 45 minutes travelling. What distance did he cover?

19. Find the range of the numbers -3, -8, 0, 4, and 5.

20. Find the square root of 1.96.

SECTION B

21. The Ven diagram shows farmers who grow cassava (C) and potatoes (P) in Ruhimbo farm. Use it to answer the questions that follow.

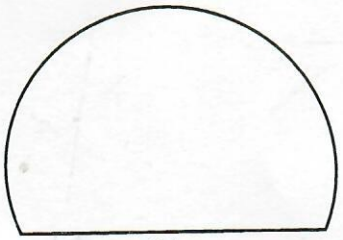


a) If those who grow only one type of crop is 19. Find the value of Y (2 Mks)

b) How many farmers are there in Ruhimbo farm altogether? (2 mks)

c) If a farmer is picked at random. What is the probability that the farmer grows cassava only? (1 mk)

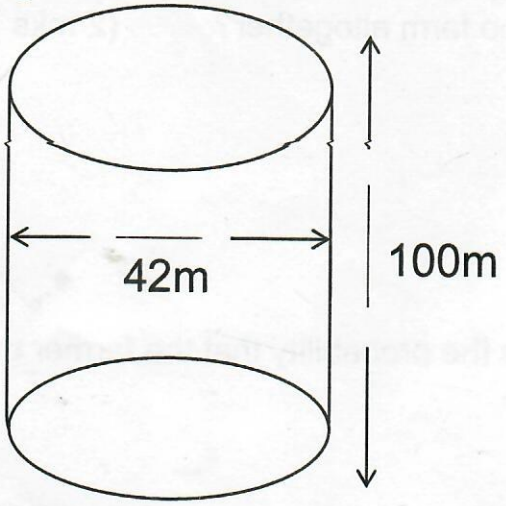
22. Jane designed her flower garden in the form of a Semi – Circle below. Its diameter is 21 meter. How many trees can be planted round the garden at an interval of 180 cm?



23. The sum of two numbers is 10. Their different is 4. Find the two numbers. (3 mks)

b). Work out the lowest common multiple of the two numbers (2 mks)

24. a) A welder cut a cylindrical tin below to make a door sheet. Find the length of the door that was made from the tin. (2 mks)



b). Calculate the area of the door that was made from the tin. (2 mks)

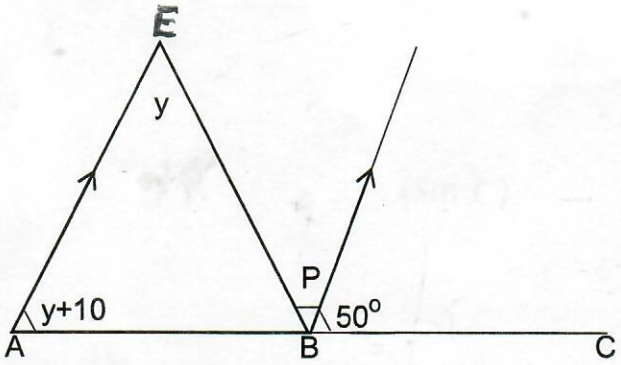
25. Use the price list below to answer questions that follow.

Item	Unit cost
Meat	shs. 10,000
Bread	shs. 5,000
Sugar	shs. 4,000

a) What will be the cost of Musa buying 2 kgs of meat, 2 loves of bread and 1 kg of Sugar. (3 mks).

b) If he had a note of sh. 50,000. What was his change?

26. Study the figure below carefully and answer the questions that follow.



a) Calculate the value of Y and P (3mks)

b) Find the size of angle EBC (2 mks)

27. a). Construct a triangle ABC where BC = 7 cm $\angle$ ABC = 120^0 and AB = 5.5 cm. (4 mks)

b). Measure AC (1 mk)

28. a) Solve for P: $201_P = 19_{TEN}$ (3 mks)

b). Work out $\frac{0.2 \times 0.03}{0.001}$

29. Marion is three times as old as Mark. In 5 years time, she will be twice as old as Mark. How old is Marion? (3 mks)

b). What will be their total age then?

30. Paul deposited sh. 400,000 in a bank that offers 2% simple interest rate per year. Calculate the simple interest he got after 3 years. (3mks)

b). Find Paul's total amount after 3 years. (2 mks)

31. A cyclist started the journey at 9:00 am and moved at a speed of 30 km/hr in 1 ½ hours. He rested for an hour and later continued to the destination covering the remaining 13.5 km in 2 hours

a) At what time did he reach the destination? (3 mks)

b) Calculate the average speed for the whole journey. (3 mks)

32. a) Solve $4(3r-2) - (r+3) = 4$ (3 mks)

b). The cost of a pair of trousers increased by 10 %. If a new cost of the trousers is shs.44,000. Find the original cost of the pair of trouser.