WAKISO DISTRICT JOINT EXAMINATIONS BOARD

(WAKISO MAIN, KIRA, MAKINDYE AND NANSANA MUNICIPALITY)

INTERNAL ASSESSMENT TERM THREE SET ONE 2022

PRIMARY SEVEN MATHEMATICS

TIME ALLOWED: 2 HOURS AND 30 MINUTES

NAME: .....

SCHOOL: .....

INDEX NO. | Emis No. | | | | | | | Personal No. | | |

DISTRICT/ MUNICIPALITY: .....

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

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections A and B

2. Section A has 20 questions (40 marks) and B has 12 questions (60 marks)

3. Answer all questions in both sections A and B.

4. All answers must be written in the spaces provided in Blue or Black ink.
   Only diagrams and graph work be done in pencil

5. Any handwriting which cannot be read, may lead to loss of marks.

6. Unnecessary crossings will lead to loss of marks.

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FOR EXAMINER'S 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		

TURN OVER

SECTION A (40 Marks)

1. Work out: 4X3

2. What is **MCX** in Hindu Arabic numerals?

3. Express 12:25am as 24 hour clock time.

4. Find the next number in the sequence.
25, 26, 30, 39, 55, _____

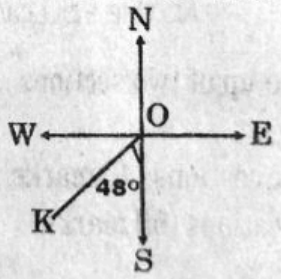
5. Work out m+10=7(mod 12)

6. Subtract:

	Hr	min	sec
	6	20	24
	-3	12	42

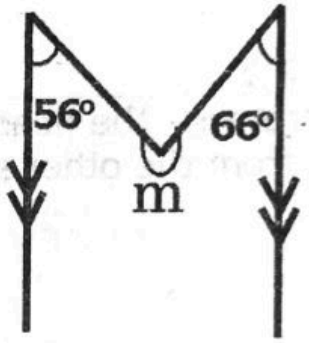
7. Express $\frac{1}{5} : \frac{1}{3}$ as a percentage.

8. In the figure below, what is the direction of **K** from **O**?

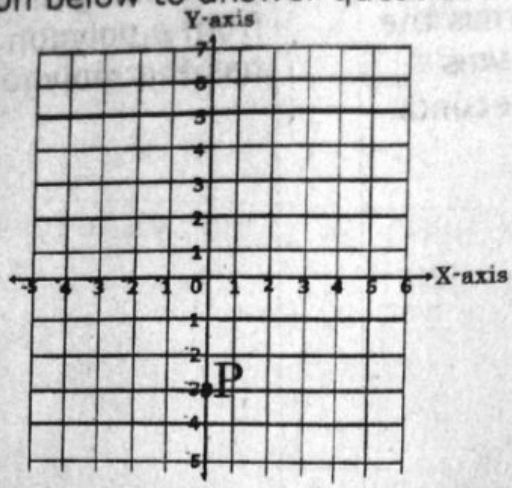


9. A man's stride is 90cm. How many strides does he make to cover a journey of 270m?

10. Express 0.074 in standard form.

11.	A car covered a distance of 648km in 3 hours. Express the speed at which the car was moving in metres per second.	12.	If 11 triangles can be formed from a polygon. How many sides has that polygon?
13.	Write in figures: Two hundred two and two hundredths.	14.	Find the value of **m** in degrees 
15.	In a class of 48 boys, 26 play football and 31 play volleyball. How many pupils play both games?	16.	Solve: $\frac{1}{2}n^2$-12=20
17.	Find the solution set for $-2<n\leq 4$.		

18. Use the graph below to answer questions that follow.



(a) Name the coordinates of point **P**

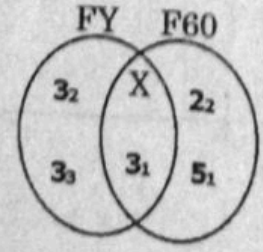
(b) Plot point T(-2,3)

19. In a line of prefects, the head prefect is the 15th from one side of the line and 19th from the other side of it. How many prefects are in the line?

20. Find the area of the shape.

SECTION B (60 Marks)

21. Study the Venn diagram below and answer the questions that follow.



(a) Find the value of;
(i) X

(ii) Y

(4Mrks)

(b) What is;
(i) LCM of **Y** and 60?

(ii) G.C.F of **Y** and 60?

(2Mrks)

22. The distance between Tororo and Kampala is 195km. a lorry left Tororo for Kampala at 1:00pm travelling at a speed of 35km/hr. A bus left Kampala for Tororo one hour later at a speed of 45km/hr.

(a) How far apart were they by 2:00pm?

(2Mrks)

(b) At what speed were they approaching each other?

(2Mrks)

(c) At what time did they meet?

(2Mrks)

23. The sum of the values in the table below are the same vertically, horizontally and diagonally. Find the missing values represented by the letters.

16	a	14
b	13	c
12	d	e

(5Mrks)

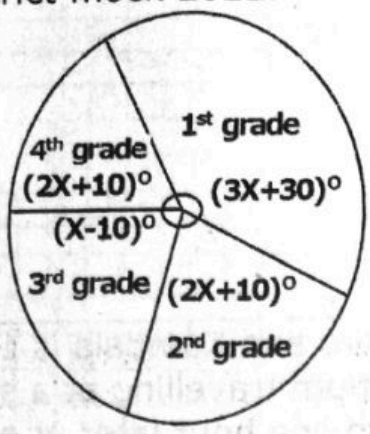
24. Today is Monday 10th October. What day of the week will it be on 14th December of this year?

(3Mrks)

(b) Work out: 5X=4 (finite 6)

(2Mrks)

25. The circle graph below shows the grades obtained by candidates in a certain school in a district mock 2022.



Find the value of X

(3Mrks)

(b) If 35 candidates got 1st grade, how many candidates are in that school?

(2Mrks)

26. Joan went to the market and bought the following items.

- 11 oranges at shs.500 each.
- 2½ clasters of bananas at shs.2,000 per claster.
- 2 pawpaws at shs.7,000.
- 15 mangoes at sh.1500 per 5 mangoes.

If she was given a discount of 7% of her total expenditure, how much money did she pay?

(6Mrks)

27. A trapezium has two of its parallel lines measuring 12cm and 20cm with its slanting side measuring 10cm.

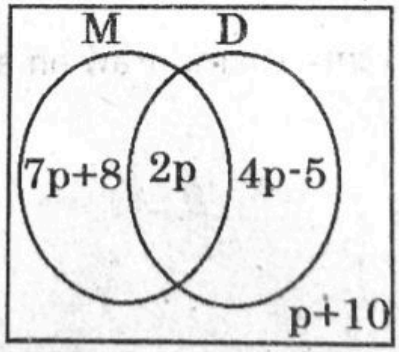
(a) Find its height. (3Mrks)

(b) Calculate its area. (2Mrks)

28. Simplify: $15n^4 \div 3n^2$ (2Mrks)

(b) Take away $-11p$ from $(4q-3p)$ (2Mrks)

29. The venn diagram below shows the two activities, music(M) and dance(D) liked by p.7 pupils.



How many pupils do not like music if 47 like only one item?

(5Mrks)

30. In a farm, a bull costs three times as much as a cow, a calf costs shs.150,000 less than a cow. If the cost of a bull is twice the cost of a cow, find the cost of a bull.

(5Mrks)

31. Write 1012_{three} in words.

(1Mrk)

(b) Find the base represented by letter **n** in the number.
$103_n = 1001_{three}$

(2Mrks)

32. Town **Q** is 50km west of town **P** and town **R** is 40km from town **P** at a bearing of 150°.

(a) Using a scale of 1cm=10km, draw an accurate diagram showing the three towns.

(4Mrks)

(b) What is the shortest distance from town **Q** to town **R**?

(1Mrk)