KCCA PRIMARY SCHOOLS EXAMINATIONS COMMITTEE
PRIMARY SEVEN END OF TERM I EXAMINATIONS 2023
MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES.

PUPIL'S NAME: _____

SCHOOL: _____

DIVISION: _____

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

Read the following instructions carefully.

1. This paper is made up of two sections: **A** and **B**

2. Section **A** has **20** questions (**40** marks)

   Section **B** has **12** questions (**60** marks)

3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.

4. ALL answers **MUST** be written using a **Blue** or a **Black** - point pen of fountain pen.

5. Un-necessary changes of work may lead to loss of marks.

6. Any handwriting that cannot easily be read may lead to loss of marks.

7. Do **not** fill any thing in the boxes shown

   "*For Examiner's use only*".

QN. NO	MARKS	SIGN.
FOR EXAMINERS' USE ONLY		
1 – 10		
11 – 20		
21 – 25		
26 – 30		
31 – 32		
TOTAL		

TURN OVER

1.	**Work out:** $64 - 53$	2.	What afternoon time is shown on the clock face below?
3.	James gathered mangoes on particulars days as seen below. Mon Tue Wed Thur Fri 4 8 6 3 4 Workout the average number of mangoes James would pick daily.	4.	**Simplify:** $-9 + -4$
5.	Given that **P** = {All counting numbers less than 6}. Find **n(P)**	6.	Write **"two thousand twenty"** in figures.
7.	**Solve for y:** $4 - y = 9$	8.	A milkman sold **24057** litres of milk in a week. Write the litres o milk sold in expanded form using values.

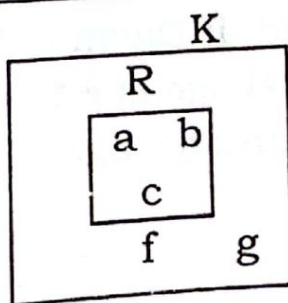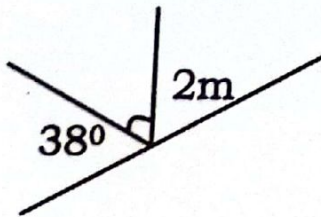|			
9.	**Workout:** $\dfrac{2}{3} + \dfrac{1}{2}$	10.	Find the area of the shape below. 8dm 10dm 13dm
11.	Find the next **two** numbers in the sequence. 125, 64, 27, ____, ____	12.	Using a pair of compasses, a ruler and a pencil, construct an angle of **120°**.
13.	K R a b c f g Study the Venn diagram above and find the number of proper subsets in Set **R**.	14.	Write **149** in Roman numerals.
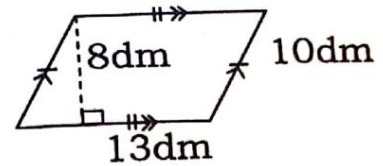
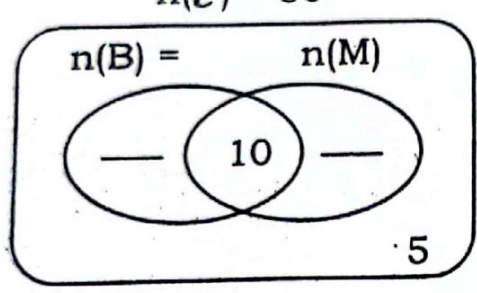| 15. Express **250g** to **kg**.	16. Given that $m = 3$, $n = -4$, evaluate $mn - n$
17. A man had **8** acres of land and shared them amongst his children. If each child got a half of an acre, how many children were they?	18. The cost of **4** apples is **sh. 2,800**. Find the cost of **3** similar apples at the same rate.
19. Find the value of **m**. 2m 38°	20. Watmon is three times the age of his son David. If David is **K** years and their total age is **64** years. Workout Watmon's age.

21. a.	Given 312_{five} represent the numeral on the abacus.	b.	Find the value of k if $k^2 = 71_{nine}$
	(2marks)		*(3marks)*

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22. a. In a community of **80** farmers, **50** grow beans (**B**) only, **10** grow Beans and Maize while **5** grow neither of the two crops. Complete the Venn diagram. *(2mark*

$$n(\varepsilon) = 80$$

n(B) =   n(M)

— (10) —

·5

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b. If a farmer is picked at random, find the probability that the farmer grows maize only. *(3mark*

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3. a.	**Workout:** $\dfrac{0.4 + 2.8}{5.45 - 3.85}$	b.	Write $\dfrac{4}{5}$ as a decimal fraction.
	(3marks)		*(2marks)*

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24. **The figure below is a cylinder. Use it to answer _a_ and _b_.**

100cm

14cm
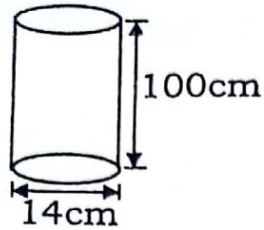
a. Calculate the base area of the cylinder. ($\pi = \dfrac{22}{7}$) (2marks)

b. Find the volume of the cylinder in litres. (3marks)

25.
a. The head teacher of Matale P/S borrowed **sh. 400,000** from a money lender at a rate of **2%** per month for **1** year. Find the simple interest after **1** year. (3mark

b. Workout the amount of money the head teacher paid back after one year.

(2marks)

**26.** John Bosco went shopping and bought the following items.

> 2 bars of soap at sh. 3,200 per bar
> 750gms of salt at sh. 600 per kg
> 2½ kg of omo at sh. 4,800 per kg
> 5 tins of curry powder at sh. 4,500

a. What was his total expenditure?

(4marks)

b. If he had **shs. 40,000**, how much money did he remain with? (1mark)

27.
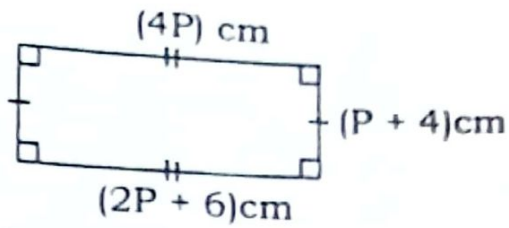**a.** A Motorist travelled **72km** in **2**hours, calculate his speed in m/sec. *(3marks)*

b. A fifty minute lesson ended at **10:30am**. At what time did it start? *(2marks)*

28.
a. Given that $^-3 - {}^-7 = {}^+4$, show the mathematical sentence on a number line. *(3marks)*
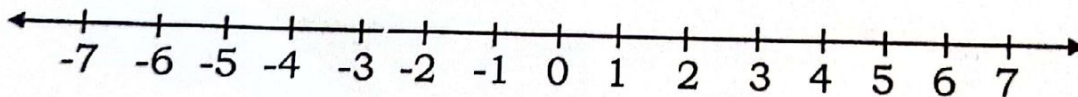
b. Workout: $0 - 5 =$ _____ **(finite 7)** using dial method. *(2marks)*

29. Study the rectangle below.

(4P) cm

(P + 4)cm

(2P + 6)cm

a.	Workout the value of **P**.	b.	Calculate the perimeter of the shape above.
	(2marks)		*(3marks)*

30.
a. Using a pair of compasses, a ruler and a sharp pencil, construct a triangle **PQR** where **QR = 4cm**, **QP = 5cm**, and angle **RQP = 90⁰**.
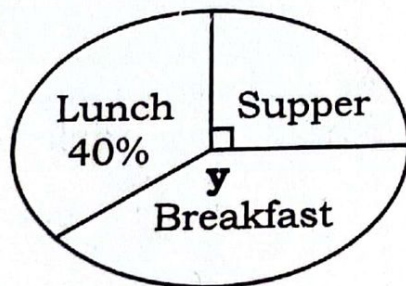
(4marks

(1mar

). Measure line **RP** in cm.

31. The probability that a volleyball team will win the match is $\frac{2}{5}$.

a. If **20** matches are to be played, how many matches a volley ball team will not win? *(3marks)*

(2marks)

b. Find the median number of **8** and **7**.

32. The circle graph below shows how Malaikah spent her pocket in Term three 2019.

a. Find the value of **y** in %. *(3marks*

b. If she had **sh. 12,000**, how much did she spend on lunch? *(2mark*