

**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.**

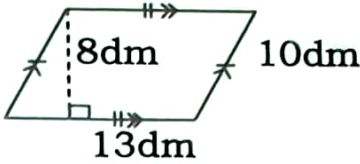
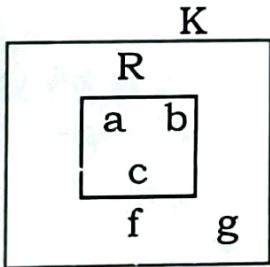
***Read the following instructions carefully.***

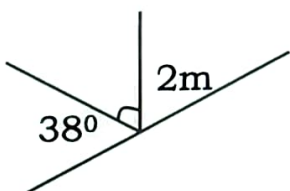
1. This paper is made up of two sections: **A** and **B**
2. Section **A** has **20** questions (**40** marks)  
Section **B** has **12** questions (**60** marks)
3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.
4. ALL answers **MUST** 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".***

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

**SECTION A (40Marks)**

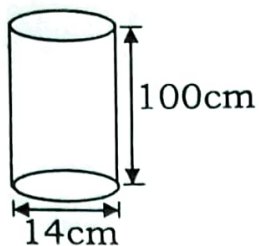
1.	<b>Work out:</b> $64 - 53$	2.	What afternoon time is shown on the clock face below? 
3.	James gathered mangoes on particulars days as seen below. <i>Mon Tue Wed Thur Fri</i> 4      8      6      3      4 Workout the average number of mangoes James would pick daily.	4.	<b>Simplify:</b> $-9 + -4$
5.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

<p>9. <b>Workout:</b> <math>\frac{2}{3} + \frac{1}{2}</math></p>	<p>10. Find the area of the shape below.</p> 
<p>11. Find the next <b>two</b> numbers in the sequence.</p> <p>125, 64, 27, _____, _____</p>	<p>12. Using a pair of compasses, a ruler and a pencil, construct an angle of <b>120°</b>.</p>
<p>13.</p>  <p>Study the Venn diagram above and find the number of proper subsets in Set <b>R</b>.</p>	<p>14. Write <b>149</b> in Roman numerals.</p>

15. Express <b>250g</b> to <b>kg</b> .	16. Given that $m = 3$ , $n = -4$ , evaluate $mn - n$
17. A man had <b>8</b> 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 <b>4</b> apples is <b>sh. 2,800</b> . Find the cost of <b>3</b> similar apples at the same rate.
19. Find the value of <b>m</b> . 	20. Watmon is three times the age of his son David. If David is <b>K</b> years and their total age is <b>64</b> years. Workout Watmon's age.



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

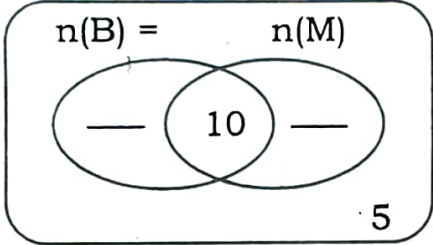


- a. Calculate the base area of the cylinder. ( $\pi = \frac{22}{7}$ ) (2marks)

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

25. The head teacher of Matala 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. (3marks)

## **SECTION B**

<p>21. a. Given <b>312</b><sub>five</sub> represent the numeral on the abacus.</p> <p style="text-align: right;">(2marks)</p>	<p>b. Find the value of <b>k</b> if <b>k</b><sup>2</sup> = <b>71</b><sub>nine</sub></p> <p style="text-align: right;">(3marks)</p>
<p>22. a. In a community of <b>80</b> farmers, <b>50</b> grow beans (<b>B</b>) only, <b>10</b> grow Beans and Maize while <b>5</b> grow neither of the two crops. Complete the Venn diagram.</p> <p style="text-align: center;">n(E) = 80</p> <div style="text-align: center;">  </div> <p>b. If a farmer is picked at random, find the probability that the farmer grows maize only.</p> <p style="text-align: right;">(3mark)</p>	
<p>23. a. <b>Workout:</b> <math>\frac{0.4 + 2.8}{5.45 - 3.85}</math></p> <p style="text-align: right;">(3marks)</p>	<p>b. Write <math>\frac{4}{5}</math> as a decimal fraction.</p> <p style="text-align: right;">(2marks)</p>

- 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**

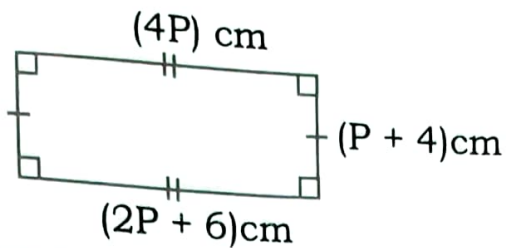
- a. What was his total expenditure? (4marks)

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

27. a.	<p>A Motorist travelled <b>72km</b> in <b>2hours</b>, calculate his speed in m/sec. (3marks)</p>
b.	<p>A fifty minute lesson ended at <b>10:30am</b>. At what time did it start? (2marks)</p>
28. a.	<p>Given that <math>-3 - -7 = +4</math>, show the mathematical sentence on a number line. (3marks)</p> <div data-bbox="175 1291 1169 1375" data-label="Figure"> </div>
b.	<p>Workout: <math>3 - 5 = \underline{\hspace{2cm}}</math> (<b>finite 7</b>) using dial method. (2marks)</p>



29. Study the rectangle below.



a. Workout the value of **P**.

(2marks)

b. Calculate the perimeter of the shape above.

(3marks)

30. Using a pair of compasses, a ruler and a sharp pencil, construct a triangle **PQR** where **QR = 4cm**, **QP = 5cm**, and angle **RQP = 90°**.

(4marks)

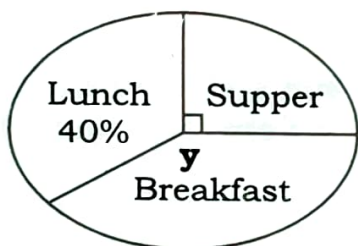
b. Measure line **RP** in cm.

(1mark)

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)

- b. Find the median number of **8** and **7**. (2marks)

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? (2marks)