



KAMPALA PRIMARY SCHOOLS HEADTEACHERS'
EXAMINATIONS COMMITTEE (KAPSHA)
PRIMARY SIX END OF YEAR 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".

**FOR EXAMINERS'
USE ONLY**

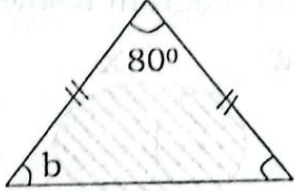
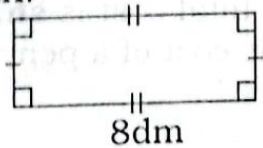
QN. NO	MARKS	SIGN.
1 – 10		
11 – 20		
21 – 25		
26 – 30		
31 – 32		
TOTAL		

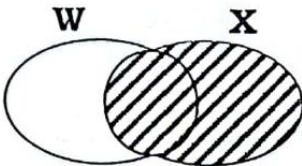
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TURN OVER

SECTION A (40Marks)

<p>1. Divide: $8 \div 2 =$</p>	<p>2. If set $P = \{\text{All factors of } 9\}$ Find $n(P)$</p>
<p>3. Write XXXIX in Hindu Arabic numerals.</p>	<p>4. Below is a prime factorization of 36.</p> <div style="text-align: center;"> $\begin{array}{c} 36 \\ \swarrow \quad \searrow \\ 2 \quad 18 \\ \quad \swarrow \quad \searrow \\ \quad \square \quad 9 \\ \quad \quad \swarrow \quad \searrow \\ \quad \quad 3 \quad \square \\ \quad \quad \quad \swarrow \quad \searrow \\ \quad \quad \quad 3 \quad 1 \end{array}$ </div> <p>Find the missing numbers.</p>
<p>5. Express $\frac{3}{4}$ as a decimal fraction.</p>	
<p>6. Show 5×2 on the number line below.</p> <div style="text-align: center;"> </div>	

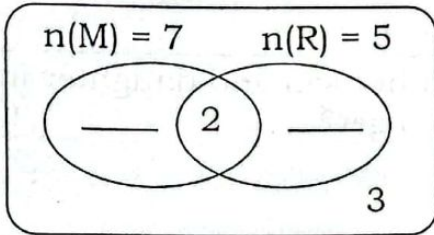
<p>7. Represent 18 using tallies.</p>	<p>8. Study the diagram below and use it to answer the question below.</p>  <p>Find the value of b.</p>										
<p>9. Workout:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: right;">Hour</th> <th style="text-align: right;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="text-align: right;">3</td> <td style="text-align: right;">42</td> </tr> <tr> <td style="text-align: right;">+ 1</td> <td style="text-align: right;">18</td> </tr> <tr> <td colspan="2" style="border-top: 1px solid black; height: 10px;"></td> </tr> <tr> <td colspan="2" style="border-top: 1px solid black; height: 10px;"></td> </tr> </tbody> </table>	Hour	Minutes	3	42	+ 1	18					<p>10. John had one thousand shillings notes numbered from GA 0007256 to GA 0007275 in a bundle. How much money did John have?</p>
Hour	Minutes										
3	42										
+ 1	18										
<p>11. The rectangle below has a perimeter of 26dm. Workout its width.</p> 	<p>12. Simplify: $3m - 9m + 7m$</p>										

<p>13. Describe the unshaded region in the Venn diagram below.</p> 	<p>14. Convert 1001_{two} to a decimal base.</p>
<p>15. Workout: $12 + 8 \div 4$</p>	<p>16. Find the next number in the sequence below:</p> <p>50, 39, 32, 27, 24, _____</p>
<p>17. Wakasanke scored 18 marks out of 25 marks. Write his marks as a percentage.</p>	<p>18. Using a ruler, a pencil and a pair of compasses only, construct an angle of 120°.</p>
<p>19. The probability of picking a boy from our class is $\frac{3}{8}$ If the class has 96 pupils, how many girls are in our class?</p>	<p>20. A pen costs a half the cost of a book If there total cost is sh. 2400/= Find the cost of a pen.</p>

SECTION B

21. In a family of **12** people, **7** like eating Matooke (M), **5** like eating Rice (R), **2** like eating both meals, while **3** like eating other food stuffs.
- a. Complete the Venn diagram below.

$$n(\mathcal{E}) = 12$$



(2marks)

- b. Find the number of people who like eating one type of meal.

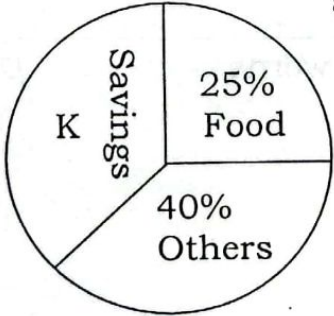
(2marks)

- | | |
|-----|--|
| 22. | Given digits 4, 0, 7 and 3 |
|-----|--|

- a. Form a smallest **four** digit number using the figures above. (1mark)

- b. Find the sum of the smallest and biggest **four** digit numbers that can be formed from the digit given above. (2marks)

- c. Write the biggest **four** digit number formed in words. (2marks)

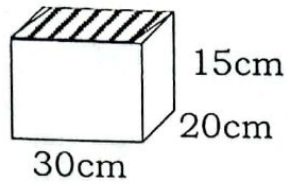
23. Increase **69kg** in a ratio of **5:3**. (2marks)
- a.
- b. A mother shared **sh. 120,000** between her son and daughter in of **5:7** respectively. How much money did each get? (3marks)
24. Find the additive in verse of **-3** (2marks)
- a.
- b. Show **$-4 + +6 = +2$** on the number line below using arrows. (3marks)
- $\leftarrow \dots -5 \quad -4 \quad -3 \quad -2 \quad -1 \quad 0 \quad +1 \quad +2 \quad +3 \quad +4 \quad +5 \quad +6 \quad +7 \dots \rightarrow$
25. The circle graph below shows how Mr. Muwanguzi spends his monthly income.
- a. Find the value of **K** in percentage. (2marks)
- 

b.	Express the portion for food in degrees. (2marks)
c.	If his income is sh. 200,000 , how much does he save? (2marks)
26.	Using a ruler, a pencil and a pair of compasses only, construct a triangle PQR where $\angle PQR = 45^\circ$, $PQ = 7\text{cm}$ and $RQ = 5\text{cm}$ (4marks)
b.	Measure line PR . (1mark)

27.	<p>Express 18km/hr to meters per second. (2marks)</p> <p>a.</p>
b.	<p>A motorist started his journey at 11:30am travelling at a speed of 50km/hr from home to town where he reached at 1:00pm. Calculate the time he used from home to town. (2marks)</p>
c.	<p>How far is town from home? (2marks)</p>
28.	<p>A father went for shopping and bought the following items.</p> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <p>2kgs of sugar at sh. 5,000 per kg 8 tomatoes at sh. 500 for every 2 tomatoes $\frac{1}{2}$ kg of millet flour at sh. 3,000kg per kg</p> </div> <p>Calculate his total expenditure. (4marks)</p>

29. The figure below is a rectangular tank. Study it and use it to answer questions that follow.

a. Find the area of the shaded top cover of the tank. (2marks)



- b. Workout the volume of the tank. (3marks)

30. Solve for n :
 $2(2n - 3) = 6$ (2marks)

- b. A mother is **5** times as old as her son. If the difference of their age is **32** years, how old is the mother?

<p>31. Subtract: $14.46 - 2.8$</p> <p style="text-align: right; margin-top: 100px;">(2marks)</p>	<p>b. Simplify: $\frac{0.48 \times 0.6}{0.2 \times 0.012}$</p> <p style="text-align: right; margin-top: 100px;">(3marks)</p>										
<p>32. The table below shows marks scored by a P.6 pupil in a test.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">Marks scored</td> <td style="padding: 5px;">85</td> <td style="padding: 5px;">70</td> <td style="padding: 5px;">95</td> <td style="padding: 5px;">80</td> </tr> <tr> <td style="padding: 5px;">No. of pupils</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">4</td> </tr> </table> <p>a. How many pupils did the test? (1mark)</p> <p>b. Find the medium mark. (2marks)</p> <p>c. Workout the average score? (2marks)</p>		Marks scored	85	70	95	80	No. of pupils	3	2	1	4
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*****GOOD LUCK*****