



# BROAD EXAMINATIONS®

## P.6 MATHEMATICS EXAMINATION

### MID – TERM II 2024

Time allowed: 2 hours 30 minutes

Pupil's Name: .....

School Name: .....

District Name: .....

**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**)
3. Section B has **12** questions (**60 Marks**)
4. Answer **ALL** questions in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

**Teacher's comment to the learner**

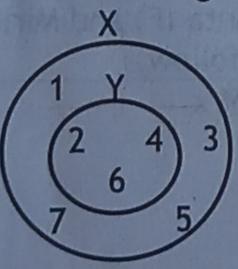
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FOR EXAMINERS' USE ONLY		
PAGES	MARKS	SIGN
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
<b>TOTAL</b>		

Approved by:

Team Head Mathematics Dept.

### **SECTION.A. (40 MARKS)**

<p>11. Arnold recorded the number of books in his bag using tally marks as below.</p> <p><b>    </b> <b>    </b> <b>    </b> <b>    </b></p> <p>How many books did he record?</p>	<p>12. A dozen of counter books cost sh.48000. What is the cost of 8 books?</p>
<p>13. Find the difference between the largest and smallest 3-digit numbers formed using digits 3, 0 and 5.</p>	<p>14. Express 1100ml as litres.</p>
<p>15. Use the venn diagram below and answer the question about it.</p> 	<p>List the elements of <math>X \cup Y</math></p>
<p>16. A patient's normal body temperature reduced by <math>3^{\circ}\text{C}</math>. Find the patient's new body temperature.</p>	<p>17. Given that <math>F90 = 2^1 \times y^2 \times 5^1</math>, find the value of <math>y</math>.</p>

18.	Round off 42.56 to the nearest whole number.	19.	In a school, the ratio of boys to girls is 5:4 respectively. If there are 360 pupils in the school, how many girls are in the school?
20.	The graph below shows the cost of apples in the market. Study it carefully and answer the question that follow.  <p>How much money can one pay for 5 apples?</p>		

### SECTION .B. (60 MARKS)

21.	The venn diagram below shows number of people who took Fanta (F) and Mirinda (M) at Catherine's baptism party. Use it to answer questions that follow.  	(a)	Find the value of x
(b)	How many people took Mirinda altogether?	(c)	How many people did not drink Mirinda?

(06 marks)

22.	(a) Simplify: $\frac{2}{5} - \frac{1}{2} + \frac{1}{3}$	(b) Work out: $0.72 \times 0.4$ 3.6	
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(05 marks)

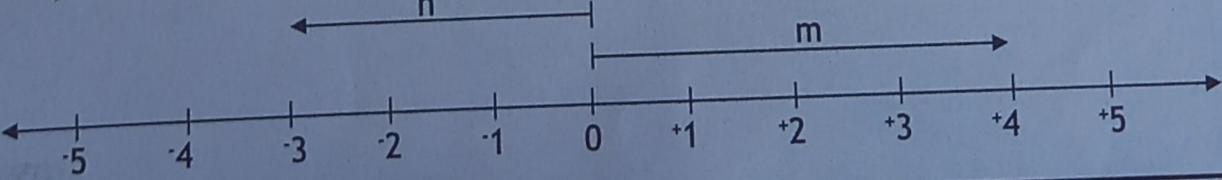
23.	Study the magic square below and complete it carefully.																	
	<table border="1"> <tr> <td>32</td> <td>_____</td> <td>6</td> <td>26</td> </tr> <tr> <td>10</td> <td>22</td> <td>20</td> <td>_____</td> </tr> <tr> <td>18</td> <td>_____</td> <td>12</td> <td>24</td> </tr> <tr> <td>_____</td> <td>28</td> <td>_____</td> <td>2</td> </tr> </table>	32	_____	6	26	10	22	20	_____	18	_____	12	24	_____	28	_____	2	
32	_____	6	26															
10	22	20	_____															
18	_____	12	24															
_____	28	_____	2															

(06 marks)

24.	Two directors of Pombe Primary School, Joyce and Joseline report at school after every 2 weeks and 3 weeks respectively. If they last reported at school together in the first week of April;	(a) After how many weeks will they report at school together again?	(b) After how many days will they report at school together again?	(4 marks)
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25.	Study the figure below carefully and answer the questions about it.	
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	<p>(a) Find the distance around the figure.</p> <p style="text-align: center;">(exhibit 20)</p>	<p>(b) Calculate the area of the figure above.</p> <p style="text-align: right;">(05 marks)</p>
<p>26.</p>	<p>(a) In a class of 36 pupils, there are 12 desks. How many pupils sit on each desk equally?</p> <p style="text-align: center;">(exhibit 20)</p>	<p>(b) Nantongo has 4 less mangoes than Aziidah. If they both have 20 mangoes, how many mangoes does Nantongo have?</p> <p style="text-align: right;">(05 marks)</p>
<p>27.</p>	<p>Given the number 43625;</p> <p style="text-align: center;">(exhibit 20)</p>	<p>(a) Find the value of 3 in the above number.</p> <p style="text-align: center;">(exhibit 20)</p> <p>(b) Write the sum of the values of 4 and 2 in words.</p> <p style="text-align: right;">(05 marks)</p>

28.	<p>Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon in a circle of diameter 6cm.</p> <p style="text-align: right;">(04 marks)</p>		
29.	<p>A bus left town M at 6:00am and reached town N at 7:15am.</p> <p>(a) How long did it take to travel from town M to town N?</p> <p>(b) If it was travelling at a speed of 80km/h, find the distance between town M and town N.</p>		
(c)	<p>If the bus returned through the same journey in 2 hours, at what speed was it travelling?</p> <p style="text-align: right;">(06 marks)</p>		
30.	<p>Study the number line below and use it to answer the questions that follow.</p> 		

	<p>(a) Write the integer represented by arrow;</p> <p>(i) m</p> <p>(ii) n</p>		<p>(b) Write the mathematical statement for the number line above.</p>								
31.	<p>(a) Dinah, a shopkeeper, bought a saucepan at sh.20,000. She later sold it at sh.25,000. Calculate Dina's percentage profit.</p>	(b)	<p>Joseph sold a cock at sh.28,000 and made a loss of sh.3000. How much did he buy the cock?</p>								
32.	<p>Erick bought scholastic materials as shown in the table below.</p> <table border="1" data-bbox="182 1224 706 1313"> <thead> <tr> <th>book</th><th>pen</th><th>ruler</th><th>pencil</th></tr> </thead> <tbody> <tr> <td>sh.1000</td><td>sh.600</td><td>sh.1200</td><td>sh.200</td></tr> </tbody> </table> <p>Using a radius of 3cm, construct an accurate pie-chart for the above information.</p> <p style="text-align: right;">(05 marks)</p>			book	pen	ruler	pencil	sh.1000	sh.600	sh.1200	sh.200
book	pen	ruler	pencil								
sh.1000	sh.600	sh.1200	sh.200								

END

(05 marks)