



# THE SPECTRUM EXAMINATIONS HUB

Beginning of Term Two Assessment 2025

P.6 Mathematics

Time allowed: 2hrs and 30 minutes

NAME: \_\_\_\_\_ STREAM \_\_\_\_\_

SCHOOL \_\_\_\_\_

Read the following instructions carefully:

1. This paper has 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. All the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. No calculators are allowed in the examination.
7. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the table indicated; "For examiners' use only" and the boxes inside the question paper.

<b>FOR EXAMINERS' USE ONLY</b>		
<b>Qn No.</b>	<b>MARKS</b>	<b>EXR'S</b>
<b>1 - 5</b>		
<b>6 - 10</b>		
<b>11 - 15</b>		
<b>16 - 20</b>		
<b>21 - 22</b>		
<b>23 - 24</b>		
<b>25 - 26</b>		
<b>27 - 28</b>		
<b>29 - 30</b>		
<b>31-32</b>		
<b>TOTAL</b>		

**Turn over.**

## SECTION A: 40 MARKS

1- Workout:

$$\begin{array}{r} 4 \quad 5 \\ + 2 \quad 9 \\ \hline \end{array}$$

2- Simplify:  $-5 - -2$

3- Write XLVI in Hindu-Arabic numerals.

4- Find the next number in the sequence;

2, 3, 5, 7, \_\_\_\_\_

5- Given that  $Q = \{\text{whole numbers less than } 3\}$ . List all the subsets of set Q.

6- Round off 9.99 to the nearest whole number.

7- Without using a pair of compasses, draw an angle of  $60^\circ$  in the space provided below.

8- Solve for k:  $6 - 2k = 2$

9- A brief teachers' meeting started 20 minutes to midday and lasted for 40 minutes. At what time did the meeting end?

10- Find the square of 9

11- Okiror bought 5 litres of juice and served all the juice in quarter litre glasses. If each visitor received only 2 glasses of juice. How many visitors did David serve the glasses of juice?

12- Find the supplement of  $55^\circ$

13- The cost of 4 watermelons is sh. 28,000. Amuge went with sh. 63,000 and bought watermelons at the same price. How many watermelons did she buy?

14- Workout:  $5^2 + 9^0$

15- Given that  represent 6 balls. How many pictures will represent 21 balls?

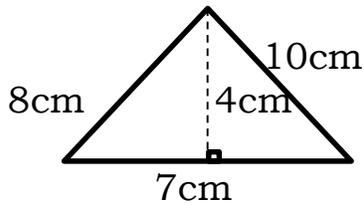
16- Find the average of 3, 5, 2, 9 and 6

17- A business man bought a goat at sh.75,000. He later sold it making a loss of sh. 3,000. How much did he sell the goat?

18- Convert 1250 grammes of salt into kilogrammes.

19- A cyclist moved a distance of 120km in 3 hours. Calculate the speed he used in kilometer per hour.

20- Find the area of the shape below.



**SECTION B: 60 MARKS**

21- (a) Change  $13_{\text{ten}}$  to base five

**(2mks)**

(b) Workout:

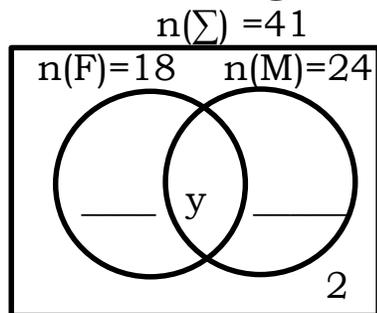
**(2mks)**

$$\begin{array}{r}
 2 \ 3 \ 1_{\text{five}} \\
 + 1 \ 3 \ 4_{\text{five}} \\
 \hline
 \hline
 \end{array}$$

22- In a class of 41 pupils, 24 pupils enjoy meat (M), 18 enjoy fish (F), y pupils enjoy both meat and fish while 2 pupils do not like any of the two dishes.

(a) Complete the venn diagram above using the above information

**(2mks)**



(b) How many pupils enjoy both meat and fish?

**(2mks)**



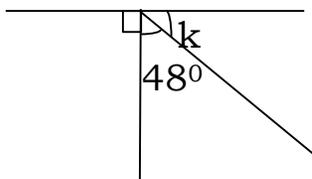
(b) Find the sum of the largest and the smallest 3-digit numbers formed using the above cards. **(2mks)**

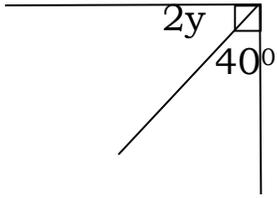
(c) Write the smallest 3-digit number formed in words. **(1mk)**

26- Arrange  $\frac{2}{3}$ ,  $\frac{1}{2}$ ,  $\frac{4}{5}$  and  $\frac{3}{4}$  in descending order. **(5mks)**

27- (a) Akim was facing South and turned clockwise through an angle of  $135^\circ$ . Find Akim's new direction. **(2mks)**

(b) Find the value of the un-known angles in the figures below in degrees. **(2mks@)**



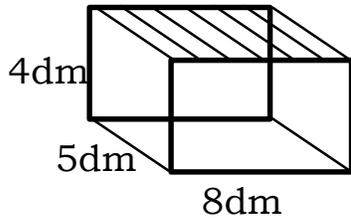


28- (a) Given that  $a = -2$  and  $b = 3$ . Find the value of  $ba$  **(2mks)**

(b) Joseph is 4 years younger than Peter. If Peter is eleven years old. Find their total age. **(3mks)**

29- In primary six class, there are 3 columns, each column has 4 desks and 3 pupils sit on each desk. One day, one pupil was absent in the class. How many pupils were present on that day? **(5mks)**

30- Study the figure below carefully and use it to answer the questions that follow.

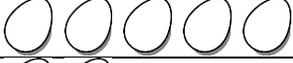


(a) How many edges has the above shape? **(1mk)**

(b) Find the area of the shaded face. **(2mks)**

(c) Calculate the volume of the above shape. **(2mks)**

31- Banwine sold eggs during a week as shown below.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key
 represents 6 eggs.

(a) On which day did she sell the least number of eggs? **(1mk)**

(b) How many eggs did she sell on Tuesday? **(2mks)**

(c) Calculate the average number of eggs sold in the last two days.  
**(2mks)**

32- Using a pair of compasses, ruler and a very sharp pencil only,  
(a) Construct a square ABCD where  $AB=5.5$  cm **(4mks)**

(b) Measure the length of the diagonal AC **(1mk)**

**END**