STEM EXAMINATIONS BOARD TERM ONE ASSESSMENT SET I, 2024 PRIMARY SEVEN **MATHEMATICS**

	Time Allowed: 2 hours	30 minutes			
Inde	Random No. Pe	ersonal No.			
Can	didate's Name:				
Can	didate's Signature:	• • • • • • • • • • • • • • • • • • • •			
Dist	rict ID No:				
	d the following instructions carefully:	FOR EXAMINERS' USE ONLY			
1.	Do not write your school or district name anywhere on this paper.	Qn. No.	Marks	EXR'S NO.	
Se ha	This paper has two sections: A and B. Section A has 20 questions and Section B has 12 questions. The paper has 8	1-5	h a		
	has 12 questions. The paper has 8 printed pages altogether.	6 - 10	Constant I		
both sections A and B must be state the spaces provided.	Answer all questions. All the working for both sections A and B must be shown in	11 - 15			
		16 - 20			
4.	4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and				
	diagrams will not be marked.	23 - 24			
5.	No calculators are allowed in the	25 26			

Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper.

Unnecessary changes in your work and

handwriting that cannot easily be read may

examination room.

lead to loss of marks.

6.

Qn. No.	Marks	EXR'S NO.
1-5		
6 - 10		Maria Maria
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		PERMIT
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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SECTION A: 40 MARKS.

Answer all questions in this section. Questions 1 to 20 carry two marks each.

Work out: 103

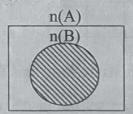
Simplify: p - 3m + 7p - 5m

If their LCM is 72, find the GCF of the number. two numbers.

The product of two numbers is 432. 4. Round off 103.73 to the nearest whole

Given that Draw picto-graph to represent 39 bibles.

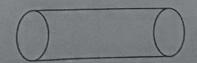
stand for 13 bibles. 6. Describe the un-shaded region in the Venn diagram below.



The water is a warred a transpersion of the Convert 7.07 Litres to CM³.

8. A profit of Shs. 5000 was made on a table sold at Shs. 55000. Calculate its percentage profit.

Draw a net of the geometric figure 10. Work out: $\frac{4}{5} - \frac{1}{2}$ below.

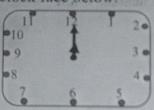


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11.	HIDO	the	median	α	The	score	below
AA	T HEFF	FALL	THECTTELL	27.4	PARK	DECIT	CHESKIYY

Number of pupils	1	2	1	3
Marks scored	10	25	30	15

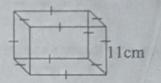
Write "Ninety thousand four hundred nine" as a numeral.

Tell the morning time shown on the 14. 13. clock face below.



Andrew's car broke down after covering of the journey. If he had covered 60km, how long was the journey?

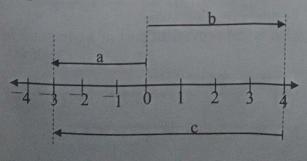
Calculate the volume of the cube below.



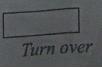
The sum of t, t+2 and t+4 consecutive 18. 17. even numbers is 36. Solve for the value oft. And the same of the tenth to the tenth to

Using a ruler, a pencil and a pair of compasses only, construct an angle of 90°.

19. Write the mathematical statement 20. represented on the number line below. 2 + 7 = 19



Work out the value of [

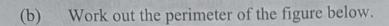


SECTION B: 60 MARKS

Answer all questions in this section.

Marks for each question are indicated in the brackets.

21. (a) Find the area of a rhombus whose diagonals are 10m and 8m respectively. (2 marks)



(2 marks)

(c) Calculate the circumference of a circle whose radius is 20mm.

(2 marks)

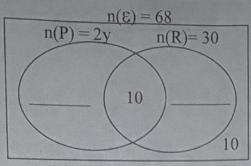
- 22. The exchange rates at the forex bureau are as follows;
 - (i) a Kenya Shilling (K.Sh.) costs Ug Shs. 138.
 - (ii) a US dollar (\$) costs Ug. Shs. 3660.
 - (a) Convert Ug Shs. 345,000 to Kenya Shillings.

(2 marks)

(b) If a computer costs 300 US dollars, what is the equivalent cost of a computer in Uganda Shillings? (2 marks)

- A class of 68 pupils was served with posho (P) and rice (R), 2y pupils at posho, 30 pupils at rice, 10 pupils at both posho and rice while other 10 pupils did not eat either of the foods.
 - (a) Represent the above information on the Venn diagram below.

(2 marks)



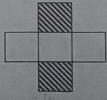
- (b) Solve for the value of y. (2 marks)
- (c) Work out the probability of picking a pupil at random who ate one type of food only. (2 marks)

24. Complete the 3 x 3 magic puzzle whose sum is 21 to find the values of a, b, c, d, e and f.

(6 marks)

a	b	C
9	f	5
d	е	6

- 25. (a) Simplify: $\frac{0.36 \times 0.6}{0.7 + 0.02}$ (3 marks)
- (b) Use the figure below to find the percentage of;



(i) the unshaded part.

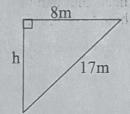
(1 mark)

(ii) the shaded part.

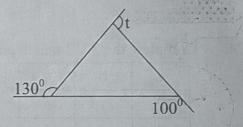
(1 mark)

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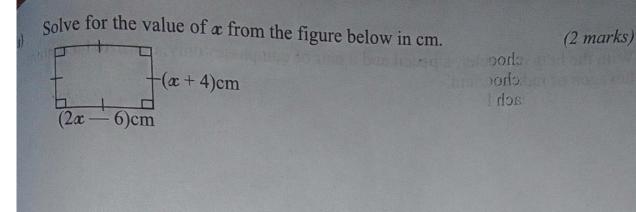
27. (a) Work out the height (h) of the right angled triangle below. (2 marks)



(b) Calculate the size of angle marked t in degrees. (2 marks)



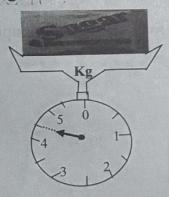
- 28. (a) Decrease Shs. 60,000 by 30%. (2 marks)
- (b) Find the amount of money on Shs. 80,000 borrowed for 2 years at a simple interest rate of 10% per annum. (4 marks)



Tom is 9 years older than his sister. Their total age is 39 years, how old is the sister?

(2 marks)

he figure below shows a weighing scale used to weigh sugar at Andrew's shop.



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(a) What is the greatest mass that can be recorded on the machine? (1 mark)

(b) How many grams of sugar were measured?

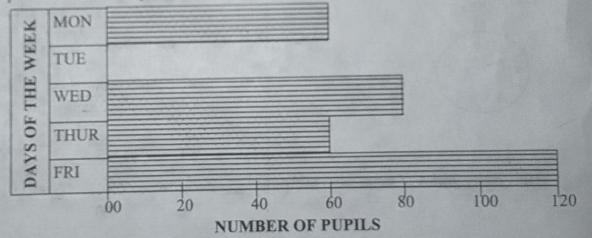
(2 marks)

(c) If a kg of sugar costs Shs. 4000, how much did a customer pay for the sugar?
(2 marks)

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31. With the help of a ruler, a pencil and a pair of compasses only, construct a regular (5 marks) hexagon of radius 3.5cm.

 The bar-graph below shows number of absentees recorded for a class of 120 pupils promoted to Primary Seven.



- (a) Which day was most likely to be a public holiday? (1 mark)
- (b) How many pupils attended on Monday and Wednesday? (2 marks)
- (c) Calculate the total number of absentees that week. (2 marks)