

## RAPHA EXAMINATIONS BOARD

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## PRIMARY SEVEN EXAMINATIONS 2024 (SET 12) MATHEMATICS

Time allowed: 2 hours 30 minutes

INDEX NO.					
	7				
CANDIDATE'S NAME CANDIDATE'S SIGN <i>A</i>				DATE	 
SCHOOL'S EMIS NO:					 
DISTRICT NAME:		 	 	 	 

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections **A** and **B**
- 2. All the working in both sections **A** and **B** should be shown in the spaces provided
- 3. All working must be done using a blue or black ball point pen or fountain pen. Diagrams **MUST** be drawn in pencil
- 4. Unnecessary changes of work may lead to loss of marks
- 5. Any handwriting that cannot be easily read may lead to loss of marks
- 6. Do not fill in anything in area indicated for *examiners use only* and those inside the paper

For examiner's use only

	or a disc only
SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

## **SECTION A (40 Marks)**

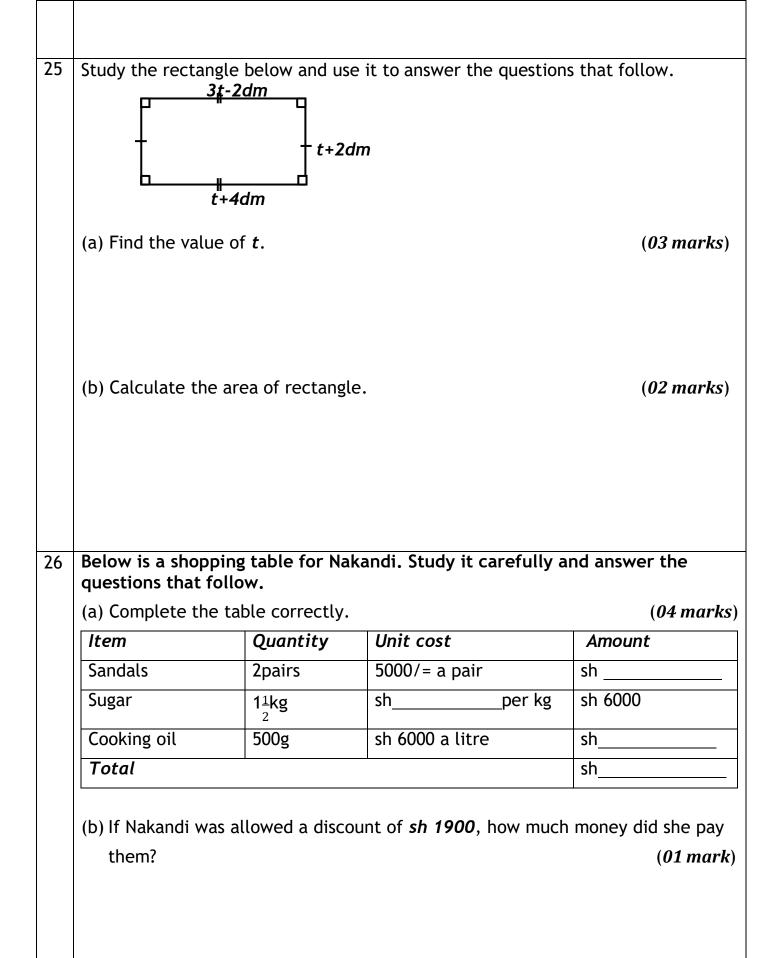
1	Divide <b>36</b> by <b>2</b> . ( <b>02</b> marks)	2	Given that	02 marks)
			H={ 2,3,5,7,8,9,10,11,12} a G={2,3,5,7,11}. Find n(H-G)	and )
3	Write in figures two hundred thirty thousand four hundred eight.  (02 marks)	4	Achudi is <i>XXIV</i> years old. Ex Achudi's age in Hindu Arabic numerals. ( <i>C</i>	-
5	Find the size of angle marked with letter <i>n</i> in the diagram below.  (02 marks)  125°	6	Find the <i>Greatest Common</i> 18 and 30. (0	Factor of 02 marks)

7	Solve for w: 3-w =7 (02 marks)	8	Simplify: $\frac{8}{9} - \frac{2}{3}$ (02 marks)
9	A worker's salary of sh 150,000 was increased by 20% this year. Find the worker's new salary. (02 marks)	10	Write <b>249.7</b> in expanded form using powers of ten. ( <i>02 marks</i> )
11	Seven basins cost sh 28000. Find the number of such basins a trader can buy with sh 52000. (02 marks)	12	Round off 69.83 to the nearest whole number. (02 marks)
13	Workout: 3-5(finite 7) (02 marks)	14	Ian finished his weekend homework on Sunday at <b>4:05pm</b> . Express this time in <b>24</b> hour-clock. ( <b>02 marks</b> )
15	In a certain village, the ratio of males to female is <b>3:5</b> respectively. Find the number of males if there	16	What is the difference between the value of <b>7</b> in the number <b>6704</b> and the value of <b>5</b> in the number <b>163.56</b> ?

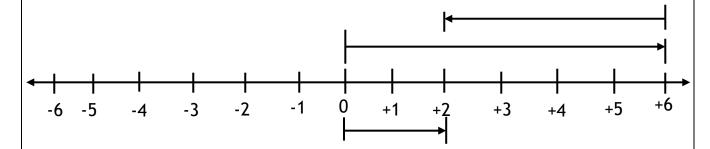
17	are <b>70</b> females. ( <b>02</b> marks)	10		(02 marks)
17	In a certain factory, there are 135 workers altogether. If there are 60 female workers, find the probability of picking a male worker.  (02 marks)	18	Workout using distributive $(\frac{1}{4} \times 64) - (\frac{1}{4} \times 28)$ .	(02 marks)
19	Kiprop covered a journey at a speed the journey?			(02 marks)
20	Using a ruler, a sharp pencil and a pr	otrac	tor, draw an angle of <b>45</b> °.	(02 marks)

	Section B (60 Marks)	
21	A pupil obtained the following marks from the end of term one exam	ns;
	48% 55% 60% 37% 52% 60%.	
	(a) Find the median mark	(02 marks)
	(b) Workout the mean mark.	(03 marks)
	(c) Find the difference between the highest and the lowest marks.	( <b>01 mark</b> )
22	In a group of <b>45</b> pupils, <b>30</b> speak <b>Kiswahili (K), x-12</b> , speak <b>Lugan</b> o <b>12</b> speak both languages while <b>2</b> speak other languages.	<i>la (L)</i> only,
	(a) Complete the Venn diagram below.  n(E)=45	(03 marks)
	n(K)=30 n(L)=	
	(b) How may pupils speak Luganda?	( <b>02</b> marks)

23	(a)Workout: 4.2+0.6 0.4 x1.2	( <i>03 marks</i> )
	(b) Change $\frac{3}{5}$ to percentage.	(02 marks)
	5	
24	With the help of a <u>rule</u> r, a sh <u>arp</u> pencil and a pair of compasses only,	construct a
	triangle RST where RS =7cm, $ST=5.2cm$ and angle $RST=90^{\circ}$ .	(04 marks)
	Measure angle SRT.	( <b>01</b> mark)



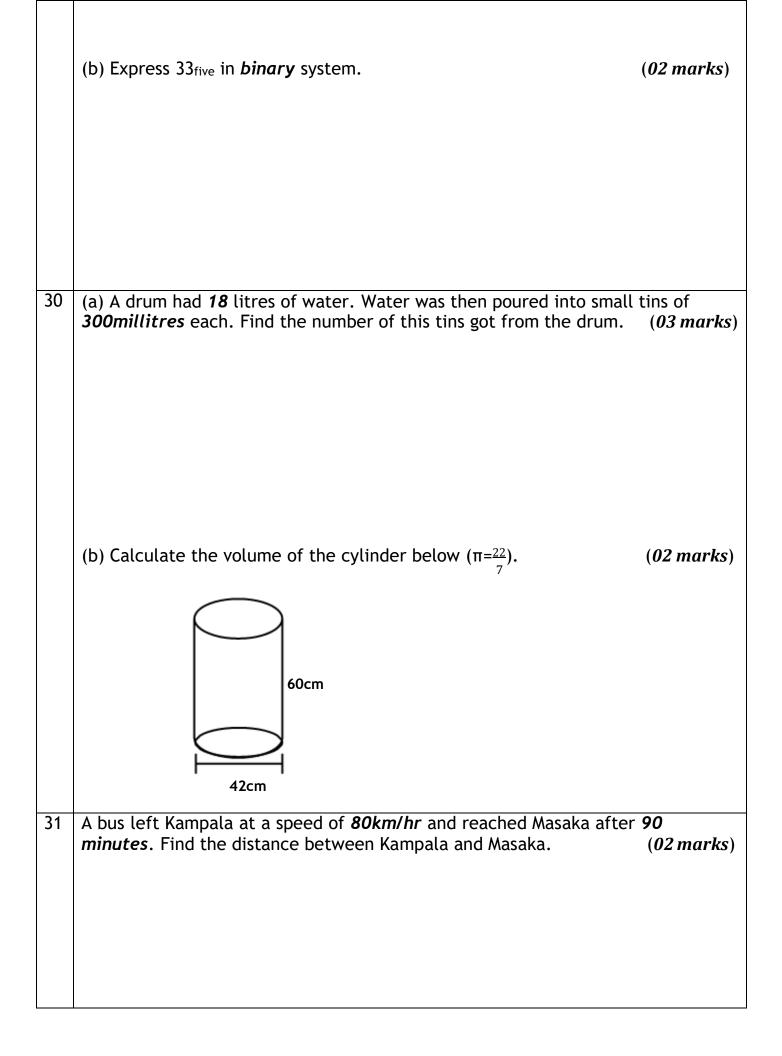
27 Study the number line below and write down the mathematical statement shown. (02 marks)



(b) A clock loses **2** seconds every after an hour. How many minutes does it lose after five days? (03 marks)

A parent divided *sh* 135000 among her four children, *Dada*, *Dudu*, *Dwong* and *Digi* in the ratio 1:2:3:4 respectively. How much share did each get? (05 marks)

29 (a) Solve:  $42_t = 211_{three}$ . (03 marks)



		(02 marks)
32	(a) Simplify: 2(2f-4) -(f-3)	(02 marks)
	(b) A table costs <i>sh</i> 38,000 more than a chair. The total cost of both and the table is <i>sh</i> 108000. Find the cost of the chair.	the chair (03 marks)