

## RAPHA EXAMINATIONS BOARD

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## PRIMARY SEVEN EXAMINATIONS 2024 (SET 8) MATHEMATICS

Time allowed: 2 hours 30 minutes

NO.						
CANDIDATE'S NAME	E:	 	 		 	
CANDIDATE'S SIGNA	ATUTE:	 	 	ATE	 	
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

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

Section A (40 Marks)

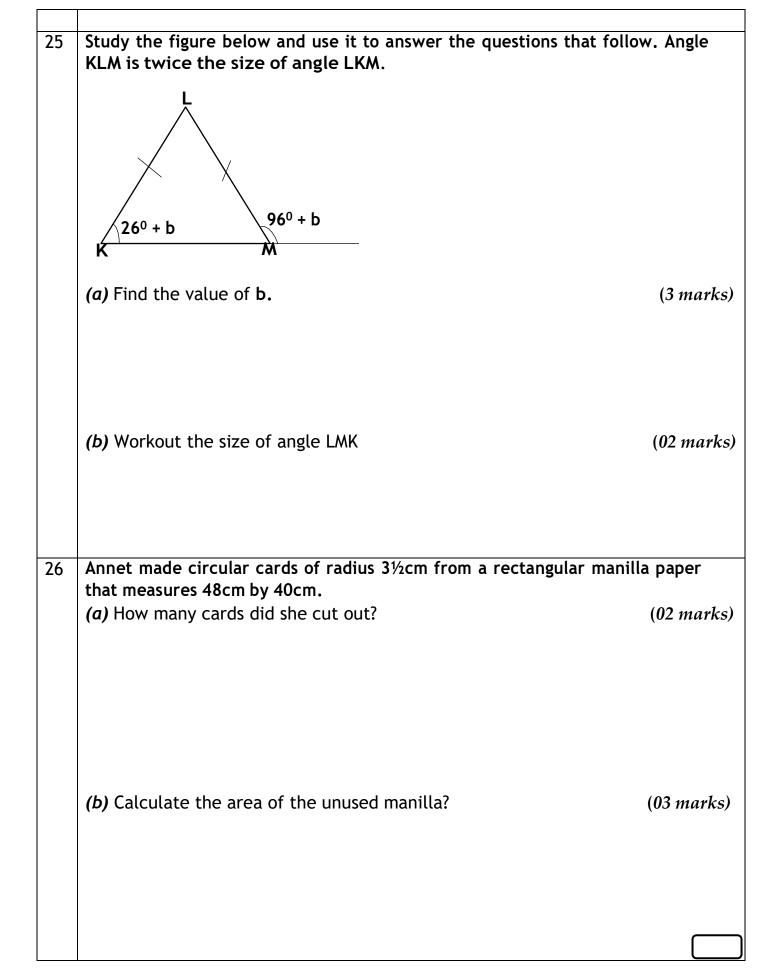
1	Workout: 34 + 52	2	Simplify: 6m - 9m + 7m		
3	Workout: 12: 1- 5 4	4	Given that set $K = \{4, 6, 7, 8, 9\}$ and set $N = \{1, 2, 3, 4, 5, 6\}$ . Find $n(K \cap N)$		
5	Without dividing, show which of the numbers 157 and 3078 is divisible by	6	Workout: 1011 <sub>two</sub> x 11 <sub>two</sub>		
	9.				
7	A dice is tossed once, what is the prob	abilii	ty that a factor of <b>6 appears</b> on top?		
8	Write the integers represented by lette	ers p	and t on the number line below.		
	p	_			
	-6 -5 -4 -3 -2 -1 0 +1+2	2 +3	+4 +5 +6 +7 +8		
	(i) t = (ii)	D =			
9	Show the time 10: 35 o'clock on the	10	In the triangle below, find the value		
	clock face below.		of y in degrees.		
			5y 105		
L		1	1		

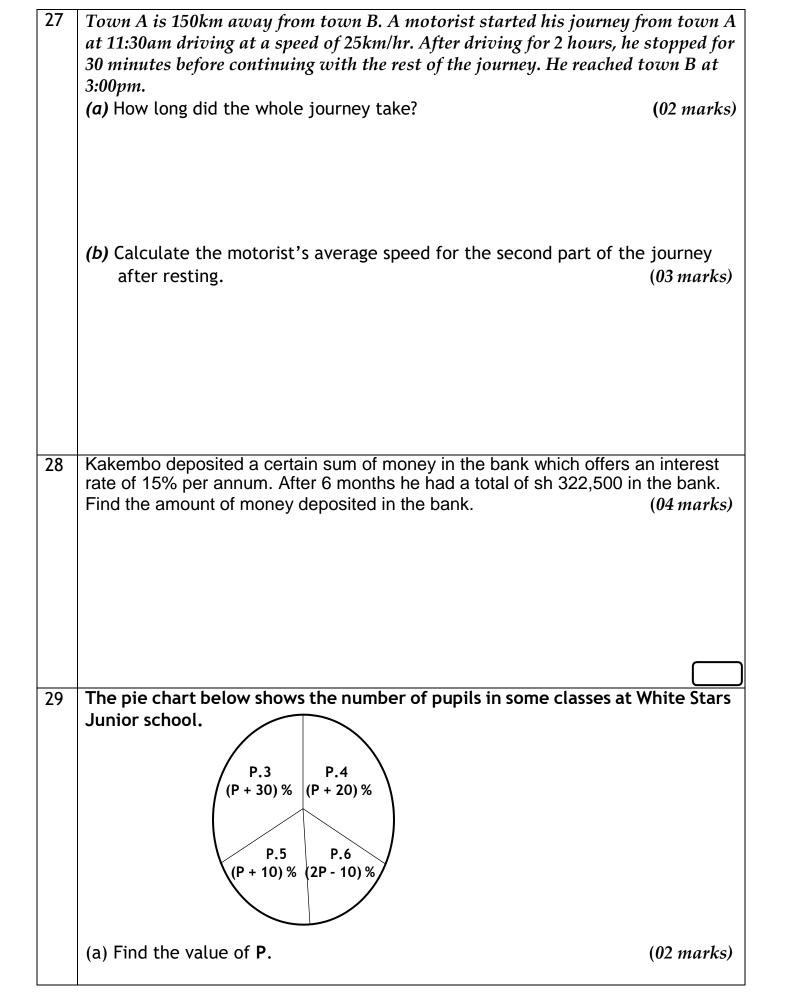
	11 12 1 10 2 -9 3- 8 4 7 6 5		
11	The area of a square piece of cloth is <b>324cm</b> <sup>2</sup> . Find the length of each side.	12	Convert 25% to a fraction in its lowest form.
13	Find the L.C.M of 18 and 45.	14	How many pieces of thread each measuring 17cm can be got from a thread with a total measurement of 3.91m.
15	Sarah bought <b>12kg</b> of sugar at <b>sh 8500</b> for every <b>3kg</b> , how much money did she spend?	16	Find the length of the arc AB in the diagram below.  21cm

17	A cyclist covers 22½km in 15 minutes. Express the speed of the cyclist in km/hr.	18	The area of the shaded part of the cyclinder below is 86cm <sup>2</sup> . Find its volume.
19	Using a ruler, a pencil and a pair of coin the space below.	ompa	sses only construct an angle of 105°
20	Aashir is 6 times as old as Aashna. If told is Aashna.	he d	ifference in their ages is 45years. How

	Section B (60 Marks)	
21	In a school of 26 teachers, 14 teach Swahili (S), 2m teach French (F) on both subjects while 4 teach other subjects.	ly, 8 teach
	(a) Complete the Venn diagram below using the above information.	
	n( <b>E</b> )= 26	(03 marks)
	n(S) n(F)	
	8	
	(b) How many teachers teach French?	(02 marks)
	(c) Find the probability of choosing at random a teacher who teaches subject.	one ( <i>01 mark</i> )
22		
22	(a) Write 694 in Roman numerals.	(02 marks)
	(b) Find the product of the value of <b>3</b> and the value of <b>5</b> in the number	13056. (03marks)

23	(a) Simplify; $\frac{0.5 - 0.2}{0.04 + 0.5}$	(03 marks)
	(b) Express the recurring decimal 0.4848 as a common fraction.	(02 marks)
24	The exchange rates in a forex bureau are as follows.	
	1US dollar \$ costs Ugsh 3600	
	1 pound sterling (£) costs Ugsh 4500 1 Kenya shilling (Ksh) costs Ugsh 37	
	(a) A customer has <b>Ugsh 765,000</b> . How many pound sterling will the get from the bureau?	customer (02 marks)
	(b) If a television set costs 333 US dollars, find the cost of the same set in Kenya shillings.	e television (03 marks)





	(b) If there are 24 more pupils in P.3 than P.5, how many pupils are there in the classes shown above? (03 marks)
30	The cylindrical tin below is $\frac{3}{5}$ full of milk.
	30cm 70cm  (a) Find the height of the whole tin. (02 marks)
	(b) Find the amount of milk in the tin. (03 marks)
31	If m = 4 and n = $^{-2}$ , (a) find the value of 4n - 2m.  P T( $\theta$ 2 marks)
	(02 marks)

	(b) Find the solution set for ${}^{-}16 < 3k - 4 < 5$	(03 marks)
32	Town A is 420km from town B on bearing of 235° and town C is 300 town A on bearing of 300°.	km from
	(a) Draw a sketch diagram showing the three towns.	(01 mark)
	(b) Using a scale of 1cm to represent 60km, draw an accurate figure the three towns in the sketch above.	showing (04 marks)