



RAPHA EXAMINATIONS BOARD

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PRIMARY SEVEN EXAMINATIONS 2024 (SET 14) MATHEMATICS

Time allowed: 2 hours 30 minutes

INDEX
NO.

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CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:DATE.....

SCHOOL'S EMIS NO:

DISTRICT NAME:

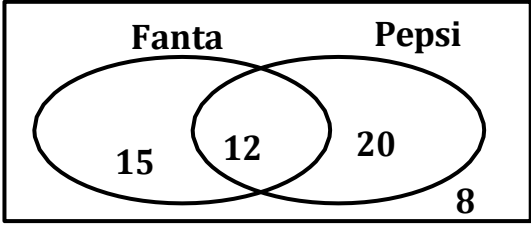
READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

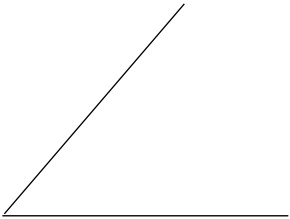
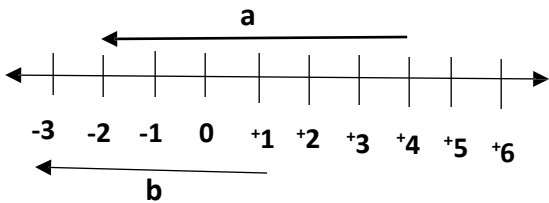
1. This paper has two sections **A** and **B**
2. All the working in both sections **A** and **B** should be shown in the spaces provided
3. All working must be done using a blue or black ball point pen or fountain pen.
Diagrams **MUST** be drawn in pencil
4. Unnecessary changes of work may lead to loss 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

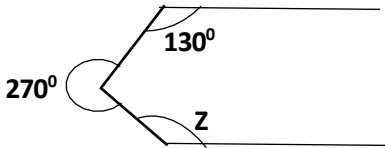
For examiner's use only

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	Page 1

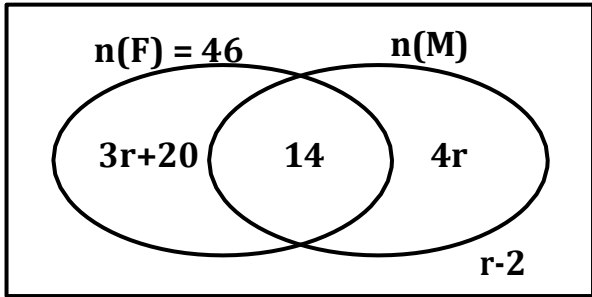
SECTION A

1	Workout $456 + 44$	2	Write 'Six hundred four thousand forty' in figures.
3	<p>The Venn diagram below shows the types of drink pupils of certain class like.</p>  <p>How many pupils don't like pepsi at all?</p>	4	Namere scored 38 marks in a text marked out of 50. Express the marks she scored in percentages.
5	Write 7:30am in 24 hour clock	6	Simplify : $4 - 2(K - 3)$
7	The cost of 3 packets of magic soap is Sh1000. Find the cost of a dozen similar packets of Magic soap		

8	A trader packed 10kg of salt in packs of 250g and 500g.If he packed 16 packets of 250g, how many 500g packets did the trader pack?		
9	Using a protractor, measure the size of the obtuse angle below	10	Find the next number in the sequence 5, 6, 14, 41, _____, _____
			<input type="text"/>
11	Workout $(0.12 \times 14) + (36 \times 0.12)$.	12	Round off 6.457 to the nearest hundredth
13	Find the integers represented on the number line  a= _____ b= _____	14	The motorist took $1\frac{1}{4}$ hours to cover a distance of 4.5km.What time would the motorist take to cover 108km at the same speed?

15	The mean of 6,7,x,9 and 8 is 7.Find the value of x.	16	The exchange rate of \$81=UgSh3600 The air ticket from Nairobi is UgSh540,000. Find the cost of air ticket in Kenya shillings.
17	Find the value of z in degrees 	18	What number when increased by $12\frac{1}{2}\%$ becomes 630?.
19.	Solve the inequality: $2(3-P)<12$	20	120 Litres of ooking oil was packed in 20 lt jerrycans.How many jerrycans of cooking oil were packed from the cooking oil?

Section B (60 Marks)

21	<p>At a party, guests were served with fish(F) and Meat(M) as shown in the venn diagram below. Study it and answer the questions below.</p> 
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(a) Find the value of r

(b) How many guests attended the party?

(02marks)

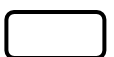
(c) If a guest was picked at random to give a vote of thanks, find the probability that the guest picked was not served all?

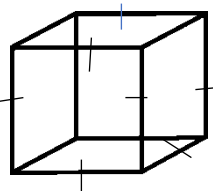
(01 marks)

22 (a). Express 0.1333... to a common fraction in its lowest form.

(05marks)

(b) Simplify $\frac{3}{4} \div 1\frac{1}{2} + \frac{2}{5}$



23	<p>(a) Work out : $234_{\text{five}} \times 3_{\text{five}}$ (02 marks)</p> <p>(b) Write the place value of 2 and 1 in 2010 (02 marks)</p>																								
24	<p>The sum of the length of all the edges of the prism below is 108cm. (a) Find the length of each edge? (02 marks)</p> <div style="text-align: center; margin: 10px 0;">  </div> <p>(b) Calculate the volume of the prism? (02 marks)</p> <div style="text-align: right; margin-top: 20px;"> <input style="width: 50px; height: 20px; border: 1px solid black;" type="text"/> </div>																								
25	<p>Amos want to shop with Shs 40, 000 and bought the items shown in the table below. If he remained with Shs 4500. Complete the table.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 25%;">Quantity</th> <th style="width: 25%;">Unit cost</th> <th style="width: 25%;">Amount</th> </tr> </thead> <tbody> <tr> <td>Rice</td> <td>3Kg</td> <td>Sh 5200</td> <td>Sh _____</td> </tr> <tr> <td>Bread</td> <td>_____ loaves</td> <td>Sh 6000</td> <td>Sh 12000</td> </tr> <tr> <td>Milk</td> <td>2½L _____</td> <td>Sh _____</td> <td>Sh 5500</td> </tr> <tr> <td>Sugar</td> <td>_____ Kg</td> <td>Sh 4800</td> <td>Sh _____</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>Sh _____</td> </tr> </tbody> </table>	Item	Quantity	Unit cost	Amount	Rice	3Kg	Sh 5200	Sh _____	Bread	_____ loaves	Sh 6000	Sh 12000	Milk	2½L _____	Sh _____	Sh 5500	Sugar	_____ Kg	Sh 4800	Sh _____				Sh _____
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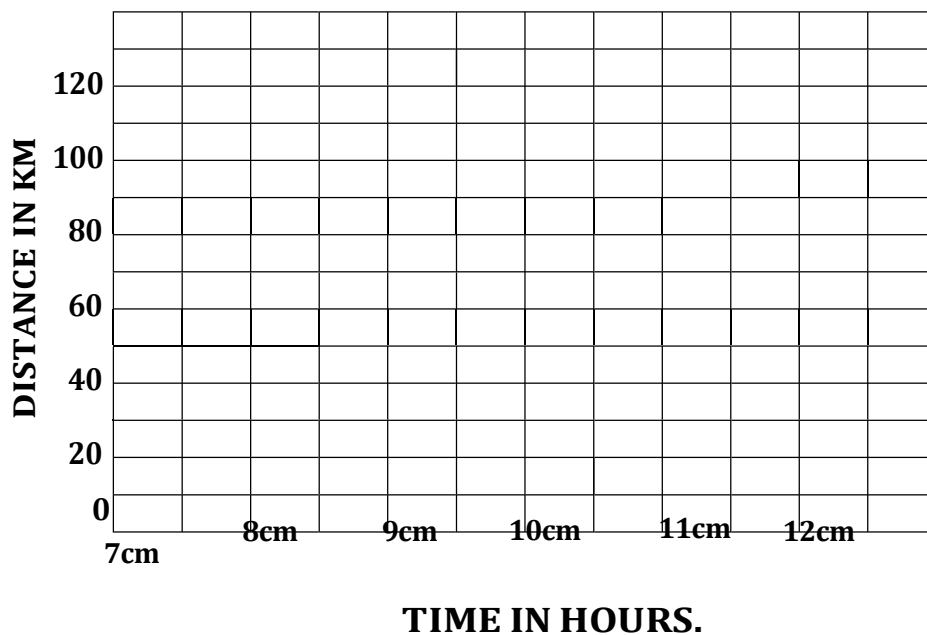
26	<p>Using a pair of compasses, a ruler and a pencil only ,construct a Rhombus ABCD where $AB = 7\text{Cm}$ and $\angle BAD = 60^\circ$ (04 marks)</p> <p>(b) Work out the perimeter of the Rhombus (01 marks)</p> <div style="text-align: right; border: 1px solid black; width: 50px; height: 20px; margin: 10px auto;"></div>
27	<p>The average age of 5 boys is 14years .When 3more boys join the group,the average age becomes 13years.If two of the boys who joined the group are twins of 11years.Find the age of the third boy?</p>
28	<p>(a). The interior angle sum of a regular polygon is 1440°,What special name is given to a polygon.</p> <div style="text-align: center; margin-top: 20px;"> </div>

	(b) In the figure above find the size of angle W
29	The length and width of rectangle are in the ratio of 4:3 respectively. If its perimeter is 42cm, Calculate its area
30	<p>Opoka is 32 years old and his son is 8 years old.</p> <p>(a) After how many years will Opoka's age be thrice his son's age?</p> <p>(b) Find their total age then.</p> <p style="text-align: right;">(05 marks)</p> <div style="border: 1px solid black; width: 50px; height: 20px; margin-left: auto;"></div>
31	<p>The area of the curved surface of a cylinder is 2200cm^2. If its height is 50cm, find</p> <p>(a) the radius of the cylinder</p> <p>(b) the capacity of the cylinder</p> <p style="text-align: right;">(05 marks)</p>

32

Komakechi started his journey from town A at 7:00am. He took 2 hours from town A to town B a distance of 10km. He rested for half an hour at town B. He left town B for town C a distance of 50km in $1\frac{1}{2}$ hours,

(a) Show Komakechi's journey on a graph below.



(b) Calculate the motorists' average speed for the whole journey. (02 marks)

(b). Calculate the average speed for the whole journey

(b) Work the Area of the shaded part in square centimeters.

(05 marks)