THE PEARL EXAMINATIONS KAMPALA SCHOOLS 2024
PRIMARY LEAVING MOCK PREPARATION 2024
Mathematics

Time allowed: 2 hours 30 minutes

Index No.

Random No.						Personal		

Candidate's Name: ……………………………………………………………………………

Candidate's Signature: ……………………………………………………………………

School Name: ………………………………………………………………………………

District: ……………………………………………………………………………..

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions.

2. Answer all questions. All the working for both Sections A and B must be shown in the spaces provided.

3. All working must be done using a blue or black ballpoint pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.

4. No calculators are allowed in the examination room.

5. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.

6. Do not fill anything in the table indicated and the boxes inside the question paper.

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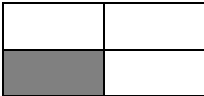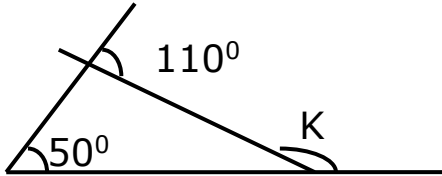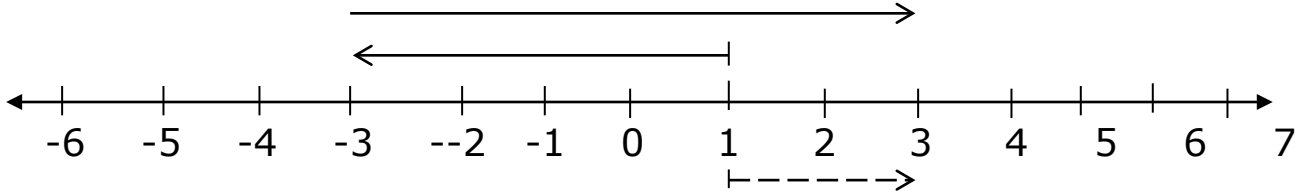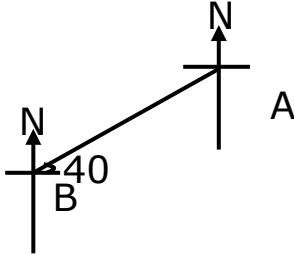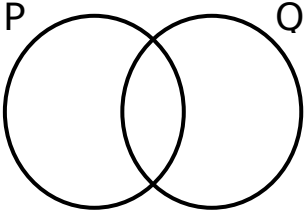
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PLEASE TURN OVER

1.	Work out: $12 \div 3 =$	2.	Find the next two numbers in the sequence. 60, 56, 52, 48, ____ , _____
3.	How many minutes are in $1\frac{1}{3}$ hours?	4.	Given that this ⬚ can hold 1.5 litres. How many such cups do we need to collect 9 litres?
5.	Write 440000 in standard form.	6.	Work out: $(2.4 \times 10^3) + (2.6 \times 10^3)$ using distributive property.
7.	What percentage of the figure is not shaded? 	8.	Simplify: 6pq - 3ab - 2pq + 8ab

9. In the figure below, find the size of the angle marked k.

10.	Write the mathematical statement shown on the number line below.

11.	Work out: $\frac{6}{7} \div 3$	12.	Today is Tuesday. What day of the week was it 30 days ago?

13.	A wheel of a bicycle has a diameter of 70cm, how many revolutions will it make to cover a distance of 22000cm?	14.	Find the bearing of point B from point A in the diagram below.

15.	In the diagram below, shade the complement of Q.	16.	The cost of a half kg of rice is sh. 1600. What is the cost of 3kg of rice?

17.	Express "a quarter to midnight" in the 24 hour reading.	18.	When two coins are tossed once, What is the probability of two heads showing up?

19.	Uganda currency sh. 2900 can buy 1US dollar. How many US dollars can one get from Ug. Sh. 870000?	20.	What morning time is shown on the clock face below?
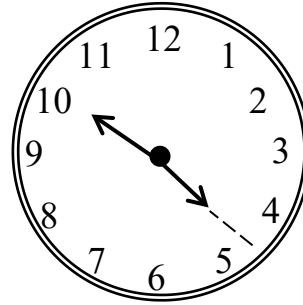
SECTION B

21.	Work out: $\dfrac{0.24+0.6}{1.2 \times 0.01}$ *(2 marks)*

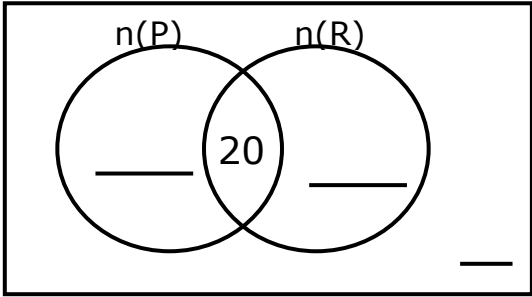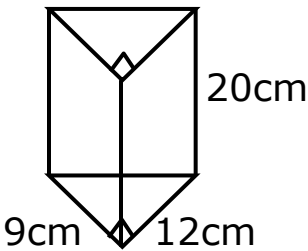|	
b) **Draw beads to show the number 3401.** (1 mark) Th H T O 	Simplify: $1\frac{2}{5}$ x $1\frac{1}{2}$ ÷ $3\frac{1}{2}$ (2marks)

22. **The table below shows Kakeeto's shopping list.** (1 mark each)

Item	Price	Amount
3kg of sugar	Sh. 3000 per kg	shs _____
1litres of cooking oil	Sh. _ _ per litre	12000
2litres of milk	sh. 2000 per litre	sh. _____
Total expenditure		**Sh.** _____

    (a)   Complete the shopping bill.

	(b) If he paid sh. 19500 for all the items, what percentage discount was he offered? (2 marks)

23.	**In a class of 50 pupils, 11 pupils like Posho (P) only, 2y pupils like rice (R) only, while 20 pupils like both Posho and rice. 9 pupils do not like any of the foods.**

a) Show the information on the venn diagram below. *(1 mark@)*	b) How many pupils like rice? *(3 marks)*

$n(\Sigma) = 50$

$n(P)$ $n(R)$

20

24.	**The diagram shows a triangle prism.**

(a)   Find its volume.   (2 marks)

20cm

9cm   12cm

(b)   Work out its surface area.   *(3 marks)*

| 25.	**The median of the three consecutive odd numbers is x. If the sum of the number is 39,**

Find the value of x. *(2 marks)*	Find the mean of the smallest and the largest numbers. *(3 marks)*

26. Amos gave away $\frac{2}{3}$ of his land to his son, $\frac{1}{4}$ of the remainder to his daughter and the remaining part to his wife. If Amos had 18000 square metres, how much land did each one get? *(6 marks)*

27. Kato drove for 3 hours 45 minutes from Kampala to Kinoni at an average speed of 64km/hr. How long did he take on the return journey if he drove at a constant speed of 80km/hr. *(4 marks)*

28.	Using a ruler, a pencil and a pair of compasses only, construct a triangle ABC in which AB = 6cm, angle ABC = 120^0 and angle BAC= 30^0. Drop a perpendicular line from C to meet AB at K. (4 marks)

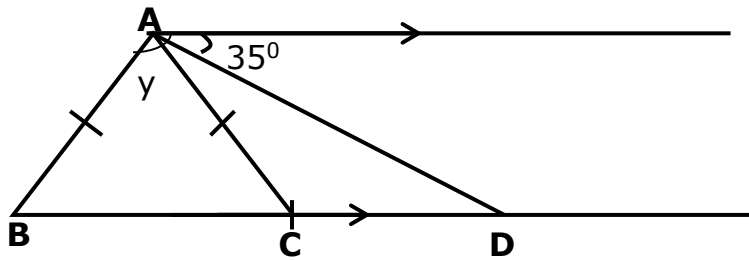| (b) Measure CK (1 mark)	(c) Calculate the area of ABC. (1 mark)

29.	The area of the shaded part is 62cm^2. Find radius of the circle. *(4 marks)*

18cm

24cm

30.	**In the figure AB = AC = CD. Find the value of angle y in degrees.**
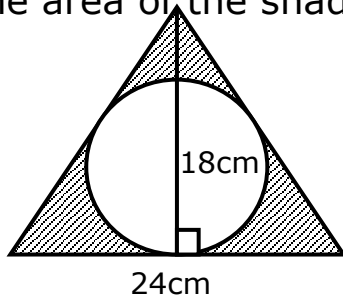
In the figure AB = AC = CD. Find the value of angle y in degrees.

(4 marks)

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31. Solve:

i) $\frac{2}{5}(K - 5) = 2$ (2 marks)

ii) $4y^2 - 5 = 59$ (2 marks)

(b)   Subtract: 12x from ⁻8x   (1 mark)

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32. (a) **Given that y =3x − 5. Complete the table below.**   (1mark each)

X	4	_____	$\frac{1}{3}$	_____	3
Y	_____	-2	_____	-8	4