# THE PEARL EXAMINATIONS 2025 KAMPALA SCHOOLS

## NEW CLASS ENTRY INTERVIEW

## **PRIMARY SEVEN**

# **MATHEMATICS**

Time allowed: 2 hours 30 minutes

		 411011	 	 	
Name: _					
School:					
District:_				 _Signature:	

#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- This paper has two sections: AandB. Section A has
   20questions 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 thangraphs and diagrams will **not** be marked.
- 4. **No calculators** are allowed in the examination room.
- 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 **"For Examiners' use only"**
- and the boxes inside the question paper.

#### FOR EXAMINERS'USE ONLY

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

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PleaseTurn Over

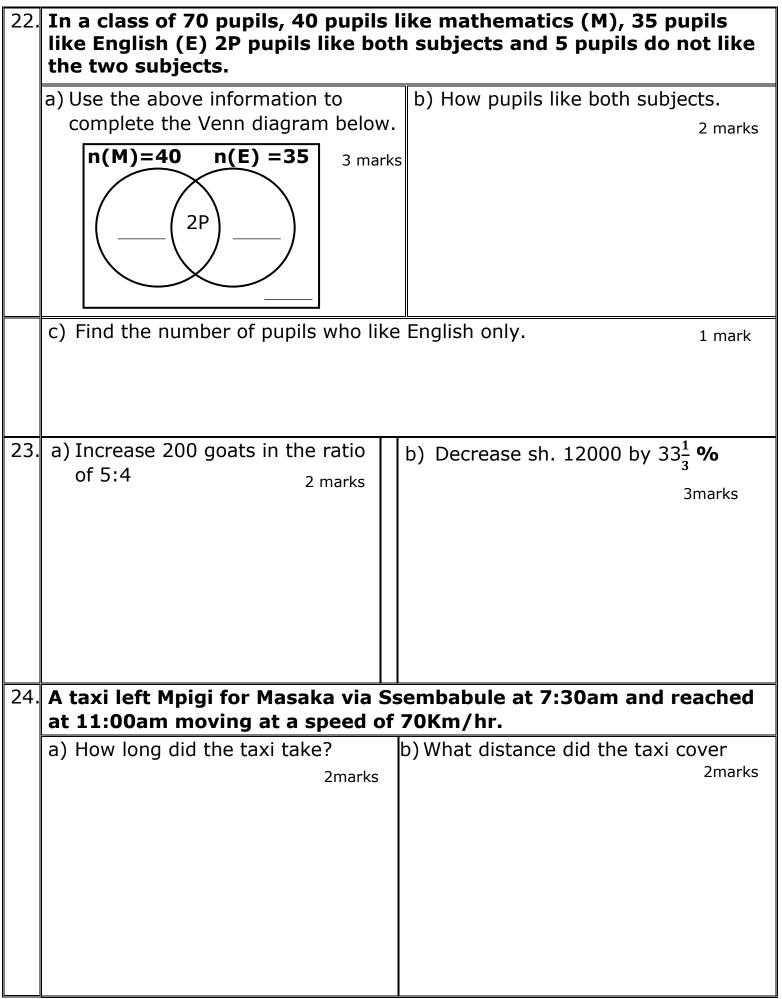
## **THE PEARL EDUCATIONAL CONSULT KAMPALA SCHOOLS**

ALWAYS USE THE PEARL: STANDARD WORK BOOKS, COMPANION BOOKS, HOME WORK, HOLIDAY PACKJAGES, LUNCH HOUR, MORNING WORK, SCHEMES OF WORK @ YOUR SUCCESS IS OUR PRIDE @

### **SECTION A**

	SECTION A				
1.	Work out: 234 + 89	2.	Write 40404 in words.		
3.	Given sets below.  P 4 1 7 5 6 3 8  List the members of PUQ	4.	A cyclist covered a distance of 240Km at a speed of 80Km /hr, Find the time the cyclist took.		
5.	Find the average of 4y, 3y and 8y	6.	Shade $\frac{3}{5}$ in the diagram below		
7.	Work out the value of 3 in 304 <sub>five</sub> .	8.	Add: $\frac{2}{3} + \frac{2}{4}$		
9.	Calculate the value of K in the figure below.  K 5K 40°	10.	5 builders take 4 days to complete a wall. How many days will 10 builders take?		
11.	If 3 mangoes cost sh. 1800. Find the cost of a 9 similar mangoes.	12.	Increase 15% of sh. 24000		

13.	Find the next two numbers in the sequence	14.	Simplify: -35
	1, 4, 9, 16,,		
15.	Write CXXV in Hindu – Arabic numerals.	16.	Work out: $\frac{3}{4} \div \frac{1}{2}$
17.	The product of 2 numbers is 24. If the first number is 8, find the second number.	18	Use $n(\frac{n+1}{2})$ to find the $20^{th}$ triangle number.
19.	Solve for K: 3 – K = 7	20.	Construct an angle of 450 using a pair of compass a rule and a pencil only.
	SECT	ION	I B
21.			) Simplify: $\frac{3}{4} - \frac{1}{3} + \frac{1}{2}$ 2marks



	c) Convert 7 years to months .	1 mark
25.	3	ils are boarders and the rest are day
	scholars.	
	a) What fraction of the pupils are day schoolars.	c) How many more day scholars than boarders are in the class. 2 marks
	b) How many day scholars are in	
	the class. 2 marks	
26.		the prime factors of X and Y. Study
	it and answer the questions that	
	$\mathbf{F_x}$ $\mathbf{F_y}$ a) Find the i) $\mathbf{X}$	value of 1 mark @
	ii) Y	
		C) Calculate the LCM of F <sub>X</sub> and F <sub>Y</sub>
	2 marks	2 marks

r							
	27.	a`	) Change	$23_{\text{five}}$	to	base	ter

2 marks

b) Work: 1 0  $0_{\text{five}}$ + 4  $4_{\text{five}}$ 

2 marks

c) Change 23<sub>ten</sub> to base five

2 marks

28. The sum of the values in table below is the same vertically horizontally and diagonally. Study and use it to answer the questions that follow.

16	2	а	
b	10	14	
8	С	4	

a) Find the magic sum

1 mark

b) Fill in the missing values.

3 marks

29. a) Write the number shown on the abacus.

H T O

TH

	b) Expand the number al using values.	bove 2 marks	c) Write the number sta in words	ated in the abacus 2 marks
30.	Okello borrowed sh. 6 rate of 5% per annun		rom the bank which o	ffers an interest
	a) Find the interest he was after 8 months.	will pay 2 marks	b) What amount will h in 8 months	3 marks
31.	Mike and Ben shared 27 mangoes did Ben get th		in the ratio of 4:5. Find	how many₄mares

32.	Using a pair of compasses, ruler and a pencil only, construct a regul	lar
	hexagon whose radius is 4cm	4marks