THE PEARL EXAMS 2024

REAL BLUE PRINT PRE-PLE 2024

CLASS : **P.7**

SUBJECT: MATHEMATICS

DURATION: 2 HOURS 30 MINUTES



Index No.										
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Candidates	Nan	ne	••••	• • • • •	•••••	•••••	••••	•••••	••••	
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District Naı	me									

Read the following instructions carefully.

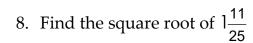
- 1. This paper has **two** Sections: **A** and **B**.
- 2. Section **A** has 20 answer questions (40 marks)
- 3. Section **B** has 12 questions (60 marks)
- 4. Answer **ALL** questions. Answers to both sections must be written in the spaces provided.
- 5. All answers must be written using a blue or black ballpoint pen or ink Diagrams should be drawn in pencil.
- 6. Unnecessary alteration of work may lead to loss of marks.
- 7. Any handwriting that cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the box indicated for examiner's use only.

FOR EXAMINERS USE ONLY						
QN. NO.	MARK	SIGN				
1 - 10						
11 - 20						
21 - 22						
23 – 24						
25 – 26						
27 – 28						
29 – 30						
31 – 32						
TOTAL						

SECTION A (20 Questions - 40 marks)

- 1. Add: 8 + 10 =
- 2. Change 131four to base ten.
- 3. Add: -3 + -7 using a number line.
- 4. If x = -4, y = -5 and $z = \frac{1}{2}$, evaluate $xy \div z$
- 5. Prime factorize 36 and give your answer in power form.

- 6. Express $7\frac{1}{2}$ % as a proper fraction in its simplest form.
- 7. Study the diagram below and find the value of K in degrees.



9. A minute hand of a clock moved from 9:15am to 9:30am. Calculate the angle that the minute hand turned.

10. The median of 3 consecutive even numbers is 10. Find the sum of all numbers.

11. Draw, indicate and state all the lines of folding symmetry on a rectangle.

12. In a group of 40 pupils, 15% are girls and the rest are boys. Find the actual number of boys.

13. The area of a circle is 154mm². Find its circumference.

- 14. Work out: 3 9 8 <u>x 1 2</u>
- 15. Given that A = 2x + 4 and B = x + 10. Solve for x if A = B

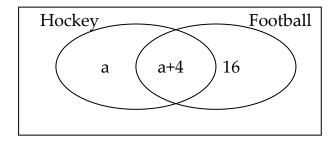
16. Change $\frac{1}{8}$ to a decimal fraction.

17. Find the range in; 8, -12, 0, 6 and 13

18. Irene drove a car at a speed of 70km/hr for 2 hours. If she returned using the same route, how many km did she drive?

19. Set A has 32 s	ubsets. Find th	ne number of elements in se	t A.
20. Work out:	Hours	Minutes.	
	4	45	
	+ 3	35	
	<u>SECT</u>	ION B (12 QUESTIONS 60) MARKS)
21 With the help	of a sharp per	ncil ruler and pair of compa	asses, construct a triangle PQR
_		le QPR = 60° and line PQ = 8	_
Ü	U	com point R to meet line PQ	
1 1 1		1 ~	,
Measure;			
(i) Line RO			(1 mark @)
(ii) angle PRO			

22. On the Venn diagram below, 24 pupils play Hockey (H).



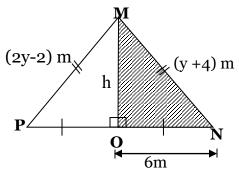
- a) Find the value of a. (2 marks)
- b) How many pupils play one game?(2 marks)

- 23. Peter went to Capital shoppers super market and bought the following items; 2 tubes of tooth paste at shs. 8,000, a pair of shoes at shs. 100,000, 5 plastic soda bottles at shs. 2,000 @ and 3 basins at shs. 4,500 @.
 - a) How much did he spend on all the items? (2marks)

b) If he went with three fifty thousand shilling notes, calculate his change after shopping. (2 marks)

c) Assuming he was given a discount of 10%, after shopping, calculate the actual amount of money he would have paid. (1 marks)

24. Study the diagram below and answer the questions that follow.



a) Find the value of y in meters (2 marks).

b) Calculate the area of the entire triangle. (3 marks)

c) A spider moved round the entire triangle three times, what distance did it cover? (1 marks)

25. (a) Solve:
$$\frac{(x-2)}{2} = \frac{(x+2)}{3}$$

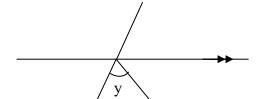
(2 marks)

- (b) Pingu is twelve years older than Wingu. In 8 years' time, their total age will be 48 years.
- (i) How old is Pingu now?

(2 marks)

(ii) How old will Wingu be in fifteen years' time to come? (1 mark)

26. Study the diagram below and answer the questions that follow.



Find the value of; (1 mark @)

i) x

ii) y

iii) z

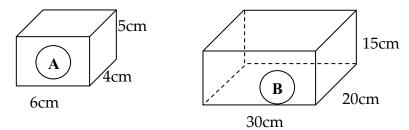
- 27. In a group of customers that entered NAKU'S restaurant, $\frac{3}{8}$ ordered for rice, $\frac{1}{5}$ of the remainder ordered for matooke while twenty ordered for posho.
 - a) What fraction of the customers ordered for; (2 marks @)
 - i) Matooke

ii) Posho

b) How many customers in total entered NAKU'S restaurant? (2 marks)

(b) Angella	drove her c	ar and	covered	148km	from	10:20am	to 12	2:20pm.	At what	speed	did
she drive?	(2 marks)										

29. Small boxes of type (A) were packed in a big box of type (B) for export to Kigali in Rwanda.

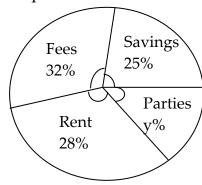


a) How many small boxes of type (A) will fill the bottom layer? (2 marks)

c) How many small boxes of type (A) will be packed in the big box of type (B)? (2 marks)

d) Calculate the volume of the empty space left after packing. (2	marks)
30. Tumusiime bought a brief case at shs. 100,000 and sold it to Pate a) How much did he sell it to Patel? (2 marks)	l making a loss of 10%.
b) If Patel sold the same brief case to Johnson and made a profit Johnson pay? (3 marks)	of 20%, how much did

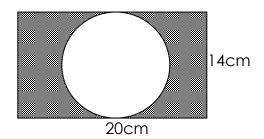
31. The pie chart below shows how Mr. Lukaluka spent his money monthly.



a) Express the sector of parties in degrees (3 marks)

b) If he spent 560,000/= on rent, work out his total income per month. (2 marks)

32. The figure below is a rectangle with a circle enclosed. Find the area of the shaded part. (Use π as $\frac{22}{7}$) (05marks)



******THE END *******