THE PEARL EDUCATIONAL CONSULT KAMPALA SCHOOLS

END OF TERM ONE ASSESSMENT-2024

PRIMARY SIX MATHEMATICS

Time allowed: 2hours 30 minutes

Name: .....

School : .....District.....

Read the following instructions carefully:

1. This paper has two sections: **A** and **B**. Section **A** has **20questions** and **section B** has **12 questions** .This paper has **12 pages** printed altogether.
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** ball point 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 **"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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Turn Over

THE PEARL EDUCATIONAL CONSULT KAMPALA SCHOOL

ALWAYS USE : STANDARD WORK BOOKS, COMPANION BOOKS, HOME WORK , STANDARD EXAMINATIONS, MORNING WORK, STANDARD HOLIDAY PACKEGES

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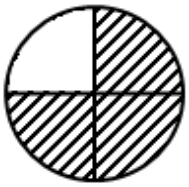
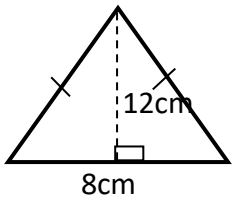
SECTION A (40 MARKS)

(***Each question in this section carries two marks***.)

1.	Workout: 32 + 45	2.	Simplify: -6 - 4
3.	Write "Four thousand, nineteen" in figures.	4.	Given that S = {w, p, m} list all subsets of set S
5.	Round off 5.69 to the nearest tenth.	6.	Find the complement of 30^0
7.	Change 240grammes to kilogrammes	8.	Solve: $\frac{P}{3} = 4$
9.	Using a pair of compasses, ruler and a very sharp pencil only, construct an angle 120^0	10.	The cost of 3 pens is sh. 2100. How many similar pens will John buy with sh. 3,500?

11.	The shaded part represents the fraction of a cake which Peter ate in the evening. What fraction of the cake was not eaten? 	12.	List the prime factors of 18
13.	Change 210minutes to hours.	14.	Subtract $312_{five} - 104_{five}$
15.	What evening time is shown on the clock face below? 	16.	Write $(4 \times 10^{1}) + (2 \times 10^{-1}) + (5 \times 10^{-2})$ in short form.
17.	Simplify: 3m – 2b + 2m + 5b	18.	Double the next number in the sequence; 2, 3, 5, 7, _____
19.	Sandra bought a bottle of 1.5litre mineral water and served it to visitors using half litre cups. How many cups did she serve to the visitors?	20.	A wire was carefully curved to form the shape below.Find the total length of the wire used to form the shape. 

SECTION B

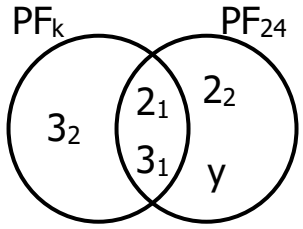
*Answer **all** questions in this section (Marks for each question are indicated in brackets)*

21. **Given the cards** **3** **0** **7**

(a) Write all the 3-digit numbers that can be formed using all the above cards

(b) Find the difference between the largest and the smallest 3-digit number.02marks)

22. Use the Venn diagram below to answer the questions that follow.



(a) Find the value of

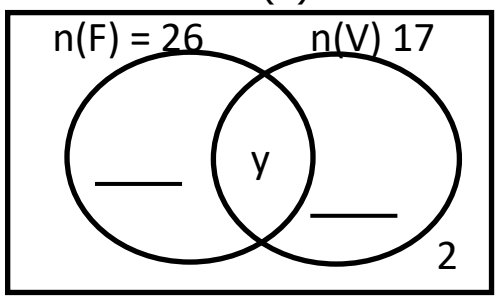
(i) k (01mark)

(ii) y (02marks)

(b)Find the LCM of PF_k and PF_{24} (02marks)

23. **In a class of 40 pupils, 26 enjoy football (F) , 17 enjoy volleyball (V) , y enjoy both football and volley ball while 2 do not enjoy any of the two games.**

a) Complete the venn diagram below (02marks)



b) How many pupils enjoy football only? (03marks)

24.	a) Solve: $\frac{2}{3}=\frac{8}{\square}$ (02marks)		(b)Find the reciprocal of $2\frac{1}{2}$ (02marks) (c)Change $\frac{2}{5}$ to a decimal number. (01mark)
25.	A business woman bout a basket of 300 tomatoes at sh. 65,000. She sold all the tomatoes in heaps of 6 tomatoes each at sh. 2,000 per heap. How much profit did she get after selling all the tomatoes? (05marks)		
26.	**In a P.6 class of 42 pupils, $\frac{1}{3}$ of them are day scholars and the rest are in boarding section.**		
	a) How many pupils are in boarding section? (03marks)		b) How many more pupils are in boarding section than day section?
27.	**Use >, < or = to complete the following statements.**		

	(i) $\frac{2}{3}$ _____ $\frac{6}{9}$ (ii) 2 x 12 _____2 + 12		(iii) -5 _____ -2 (iv) 4kg _____400g.
28.	Given that a= 2, b = 3 and c = ab. Find the value of; a) 3b + c (02marks)		
	b) $\frac{6a+b}{c}$ (02marks)		c) b^2- c(02marks)
29.	(a)Find the value of 2 in 124_{six} ***(02marks)***		
	(b)Change 16ten to base five (02marks)		(c)Workout: $1\ 1\ 0_{two}$ (02marks) $-\ 1\ 1_{two}$

30. **Martin went for shopping and bought the following items;**

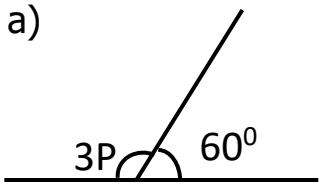
- 2kg of maize flour at sh. 2700 per kg.
- 1 ½ litre of milk at sh. 2000 @ litre.
- 500grammes of sugar at sh.4800 per kilogram.

(a) Calculate his total expenditure (04marks)

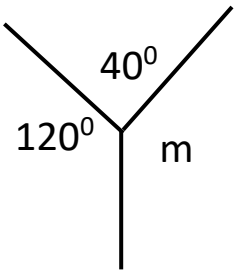
(b) If he went with sh.20,000, find his balance (01mark)

31. **Find the size of the unknown angles.**

a) (02marks)



b) (02marks)



32. **Follow the instructions below carefully.**

(a) Using a pair of compasses, ruler and a pencil; (03marks)

(i) Draw a line segment PR = 5cm

(ii) Adjust your pair of compasses to a radius of 5cm and stand at point P and construct an arc above and below line PR

(iii) Using the same radius, stand at point R and construct an arc above and below line PR.

(iv) Name the intersecting point above as Q and that below as S

(v) Join point P to Q, Q to R, R to S and S to P.

(b) Which special name is given to the figure PQR? (01mark)

****END***