FORT PORTAL CITY COUNCIL EDUCATION DEPARTMENT PRIMARY LEAVING MOCK EXAMINATION, 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.

Personal No.

Candidate's	Nam	e:		 	 	 	 	
Candidate's	Signa	ature	:	 	 	 	 	

Read	the	following	instructions	carefully
------	-----	-----------	--------------	-----------

 Do not write your school or district name anywhere on this paper.

District ID No:

- This paper has two sections: A and B. Section A has 20 questions and Section B has 12 questions. The paper has 16 printed pages altogether.
- Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- 4. 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.
- No calculators are allowed in examination room.
- 6. Unnecessary changes in your work and hand writing that cannot easily be read may lead to loss of marks.
- 7. Do not fill anything in the table indicated: "For Examiners' Use Only" and boxes inside the question paper.

	FOI	ξ [EXAM SE O	IINEF NLY	RS'		
	Qn. No.		Marl	(S	E	XR'S NO	
	1 - 5						
	6 - 10						
	11 - 15						
	16 - 20					**	
	21 - 22	T					
	23 - 24	T			1		
	25 - 26	1					
	27 - 28	1				J. 12.4	
	29 - 30						`
:	31 - 32						
	TOTAL						- in al
	1					1	

SECTION A: 40 MARKS.

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

Work out: 24 ÷ 2

2. Write 49 in Roman numerals.

3. Round off 19.826 to the nearest whole number.

4. Given that: t = 2 and c = -3. Find the value of $t^2 - c$.

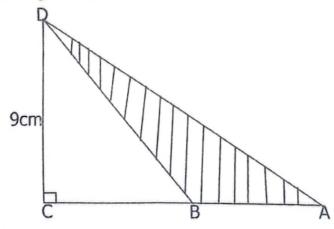
5. Arrange the following integers in descending order $^-3$, 2 5, 0, 4, $^-1$.



1, 2, 3, 5, 8, ____

7. Given that set $P = \{a, e, i, o\}$, how many subsets are in set P?

8. In triangle ACD, line AC = 15cm, line BC = 5cm. Calculate the area of the shaded triangle ABD.



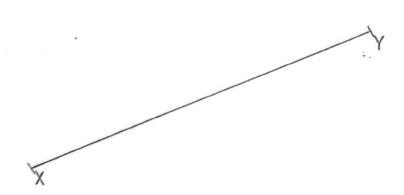
9. There are 30 eggs on a tray. How many eggs are on 124 trays?

 The table below shows the ages of Madam Anita's children use it to answer questions that follow.

Aisha	Juma	Amidu	Shakila
15	8	17	12
	15	15 8	15 8 17

What is the difference between the oldest and the youngest child.

11. Using a ruler, a sharp pencil and a pair of compasses only, drop a perpendicular line bisector from point Z to meet line XY at W.



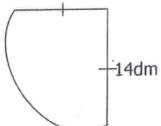
12. Given that $2^{2a} \times 2^4 = 2^6$. Find the value of a.

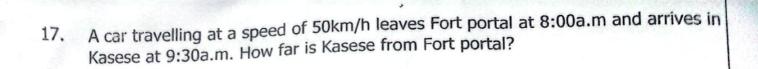
13. How many $2\frac{1}{2}$ litre cups can be got from a 20 litre jerrycan?

14. Solve for t: 14 - 2t = 8.

15. If today is Wednesday, what day of the week was it 32 days ago?

16. Calculate the perimeter of the figure below. Take $\pi = \frac{22}{7}$

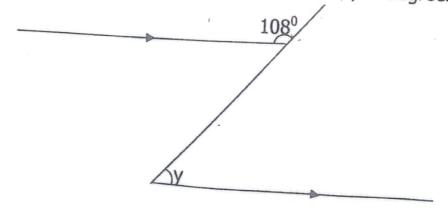




18. Musa had Ug Shs. 210000. he exchanged it into Kenya Shillings at the "LIVE AND TAKE" forex bureau at the rate of 1K Sh. = Ug Shs. 30. How much Kenya Shillings did he get?

19. Express 2310 hours in 12 hour clock system.

20. In the diagram below, find the value of y in degrees.



SECTION B: 60 MARKS.

Answer all questions in this section.

Marks for each question are indicated in the brackets.

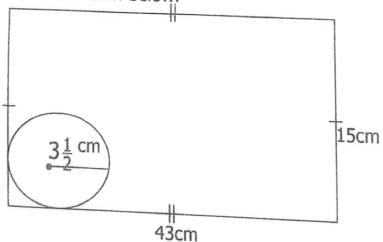
21. (a) Write 0.3636 . . . as a common fraction in its simplest form.

(2 marks)

(b) Work out:

3.6 x 0.3 1.2 x 0.09 (3 marks)

22. Alien makes circular pancakes from a rectangular dough measuring 40cm by 15cm as shown below.



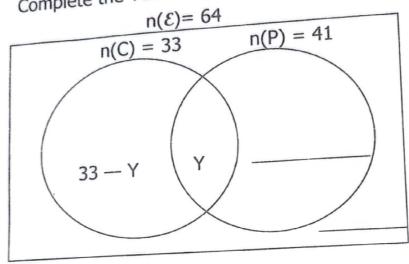
(i) How many pancakes can he get from the dough above?

(2 marks)



In Rwengaju village of 64 farmers all grow bananas, 33 grow cassava (C), In Rwengaju village of 64 farmers grow bananas only, y farmers grow all the three 41 grow potatoes (P), 8 farmers grow bananas only, y farmers grow all the three 23. . Complete the Venn diagram below using the above information. (2 marks)

crops.



Find the value of y. (b)

(2 mark)

24. Moses went shopping and bought the following items as shown in the table below.

ITEM	QUANTITY	UNIT COST	TOTAL COST	
Rice	$\frac{1}{2}$ kg		Shs. 6000	
Meat	1500gm	Shs. 14000 per kg		
Sugar	2kg	Shs. 4000 @ kg	Shs. 8000	
Bread	2 loaves	Shs. 5000 a loaf	Shs	
	TOTAL EXPEND	TURE	Shs	

(a) Complete the table above.

(4 marks)

(b) If he was given a discount of 10%, how much did he pay for all the items? (2 marks

In a P.7 class of Kangeya Primary School, $\frac{3}{5}$ of the pupils are girls, $\frac{1}{3}$ of the girls and $\frac{1}{4}$ of the boys like debate. There are 27 pupils in the class who like debate. Find the total number of pupils in the class. (5 marks)

26. The time table below shows a journey made by the bus from Fort Portal to Kasese.

Bus terminal	Arrival	Departure	
Fort portal		8:00a.m	
Rubona	9:00a.m	· 9:45a.m	
Nyakigumba	11:00a.m	12:00noon	
Rwimi	12:20p.m	12:40p.m	
Kasese	1:00p.m		

() I will did the bus set off floriff of the	(a)	At what time	did	the	bus	set	off	from	Fort	Port	al
---	-----	--------------	-----	-----	-----	-----	-----	------	------	------	----

(1 mark)

(b) How long did the bus take to travel from Fort Portal to Nyakigumba. (2 marks)

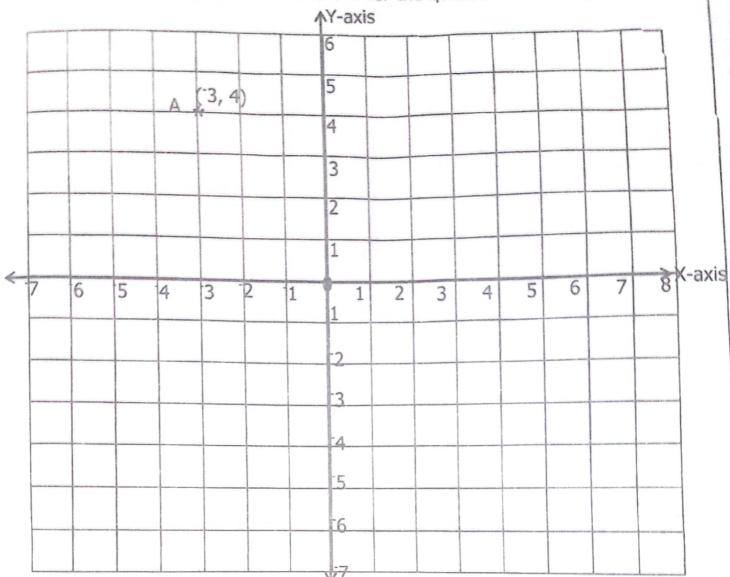
(c) If the distance from Fort Portal to Kasese is 80km. Calculate the bus' average speed for the whole journey. (3 marks)

The interior angle of a regular polygon is 120° more than its exterior angle.
 (a) Work out the size of each exterior angle. (2 marks)

(b) Find its number of sides.

(2 marks)

28. Study the co-ordinate graph below and answer the questions that follow.



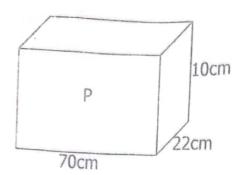
Plot the co-ordinates of points. (a)

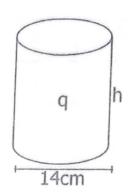
(2 marks)

(ii)
$$C(5, -2)$$

Join the points A to B, B to C and C to A to form a geometric figure and name (b) the figure formed. (2 marks)

 Given that the two containers below have the same volume. Study them and answer the questions that follow.





(a) Find the volume of container P above.

(2 marks)

(b) Calculate the height (h) of container Q Take
$$\pi = 22$$
 (3 marks)

30. (a) Find the solution set for inequality.

(2 marks)

(b) Solve for y in the equation below. 2(y-4)-3(3y-5)=0

(3 marks)

31. (a) Multiply: 1101_{two} x 11_{two}.

(2 marks

(b) 'Find the place value of 3 in the number 324_{five}.

(1 mark

(c) Write 834.6 in scientific notation.

(2 mark

32.	Using a ruler, a pencil and a pair of compasses only, construction trapezium LINE in which line EL = 7cm, ∠NEL =∠ELI = 60°	ct an isosceles and line
	NF = II = 3.5cm	(4 marks)

(b) Measure line NI in centimetres.

(1 mark)