

PACE EDUCATION SERVICES

PRIMARY SEVEN PREPARATION SET TWO (MARS) 2025

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Random NO.				Pe	rsona	l No.		

Candidate's Na	nme:
Candidate's Sig	gnature:
School Name:	

Read the following instruction carefully:

- 1. Do not write your **school** or **district name** anywhere on this paper.
- This paper has two sections: A and B
 Section A has 20 questions and section B
 has 12 questions. The paper has 13
 printed pages altogether.
- 3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided. No <u>calculator</u> use.
- 4. All working **must** be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- 6. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY					
QN.NO. MARKS EXR'S					
1 - 5					
6 - 10					
11 - 15					
16 - 20					
21 - 22					
23 - 24					
25 - 26					
27 - 28					
29 - 32					
TOTAL					



SECTION A: 40 MARKS

Answer all questions in this section

Questions 1 to 20 carry two marks each.

1. Add **5** to **7**

2.	Write in words: 40,090

3. Write **59.97** to one place of decimal

4. Simplify: $0.2^{-1} + 0^{0}$

5. Solve: 3(2 + g) - 5g = 7

6.	Given that [represent 9	glass cups.	Draw pi	ictures in	the	box to
	represent 81 gl	ass cups.					

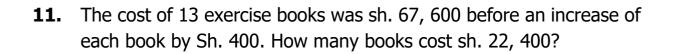
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7. Find the sum of the two missing number in the series.

8. Form set S if all its subsets are; { }, {r}, {t}, {r, t}.

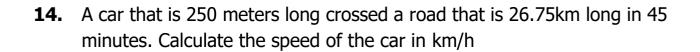
9. A motorist left town Q for town K at 11: 05 p.m. and reached at 11:50 a.m. For how long did the motorist ride?

10.	Find the number of tomatoes that when grouped in nines leaves 2
	ungrouped while in tens leaves 1 ungrouped.



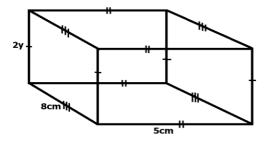
12. Find the numerical place value of 3 in 32_{five} .

13. Mulumba paid $33\frac{1}{3}\%$ of his fees and was sent home to bring remaining sh. 200,000. How much does he pay as fees?



15. Find the number that was written as 5.78×10^{-3}

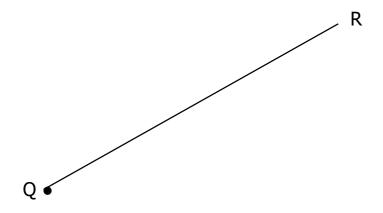
16. The figure below is a rectangular prism that was made by a profit seven candidate during mathematics exhibition using a metal rod of total length 124 centimeters. Find the value of y.



17. A man bought 21 boxes of sacks of rice that weighs 101kilograms each and shared the rice equally to his three sons, how many kilograms did each son get?

18. Today is Wednesday, a meeting that was held after every two days lasted for 5 days and ended today. Find the day of the week in which the meeting started.

19. Without extending the line, using a ruler, pair of compasses and a sharp pencil only. Construct an angle of 120° at point Q



20. Simplify: $\frac{1}{3} + \frac{4}{5} \div \frac{1}{5}$

SECTION B: 60 MARKS

Answer **all** the questions in this section. Marks for each question is indicated in bracket

- **21.** Of the 40 members of cooperative society, 24 are farmers and 30 are traders. 4 members belong to both farmers and traders society while 3 do not belong to any of the cooperative society.
 - a) Find the number of farmers who carry out only one activity.

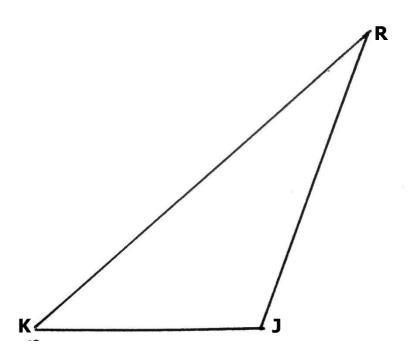
(04 marks)

b) Find the probability that a member picked at random is not a trader.

(02 marks)

22. The figure below is accurately drawn. Calculate its area

(04 marks)



23. A trader sells 950 grams of nails at sh. 4,940 and 0.6 kilograms of cement at sh. 22,800.

How much is the cost of 2.5 kilograms of nails and 3 $\frac{1}{2}$ kg of cement? (04 marks)

24.	Namwanje, Bagadisa and Natabo contributed some money to buy the land in the ratio of 3: 2: 7 respectively. 30% of more money Natabo and Namwanje contributed than Bagadisa was Sh 360, 000.			
	In shillings, a) Find the amount Natabo contributed.	(03 marks)		
	b) Find the more amount Namwanje contributed than	Bagadisa. (03 marks)		
25.	a) Find the difference of the place value of 8 in 2018 fro the digit in ten thousands place in the numeral 23,847 (
	b) Prime factorize the value of 9 in 7,493 and represent subscript form.	your answer in (02 marks)		

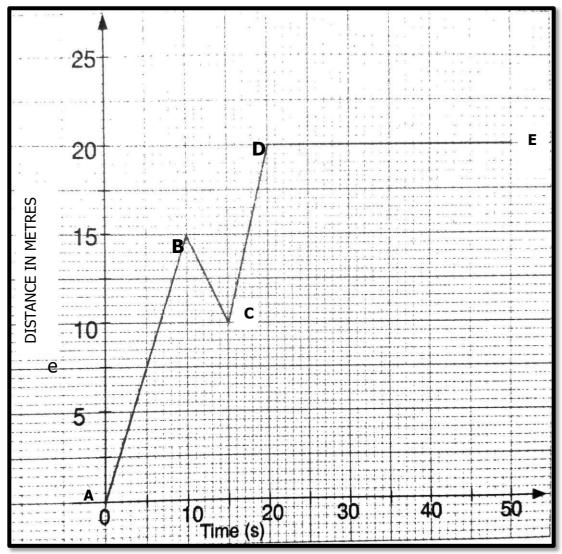
26.	Miya constructed a	regular pol	ygon with 16	right angles.
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a) Find the interior angle sum of the polygon.

(03 marks)

b) What is the fraction of exterior angle to interior angle of the polygon above? (02 marks)

27. The graph below shows a race for an athlete from point A to B during a certain race. Study it and answer questions that follow



a) Find the distance an athlete has covered by 15 seconds.

(02 marks)

b) Express the athlete's speed at the point C to D in kilometers per hour. (03 marks)

	c) Calculate the athlete's average speed for the whole race.			
		(03 marks)		
28.	The median number of three consecutive counting nun	nbers is 2k + 4		
	and their sum is 72.			
	Find the value of k.	(04 marks)		

29. At the shop, geisha soap **Q** costs sh. 5,000 while that of **K** costs sh. 4,000. Find out the cheaper geisha soap. (04 marks)



- **30.** In a certain family, Anena and Achiro are twins, their age are $(\frac{(3y)}{5} + 6)$ years and (2 + y) years
 - a) How old is Anena?

(03 marks)

b) Find their total age in three years' time.

(02 marks)

31. In a circular line made during physical exercise (PE), Mugula was 8th from either side of the line when they stand at an interval of 110cm. How far is Mugula from the center of the circular line made?

(04 marks)

32. a) Solve the inequality; $12 \ge -3k \ge -18$ (03 marks)

b) State the values of k if it's a whole number. (02 marks)

