THESIPRO P.7 SPECIAL SET 2024

MATHEMATICS

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		For Ex	aminer's Us	e Only:
CAREFULLY:	LOWING INSTRUCTIONS			
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	as two sections: A and B. s 20 questions (40 Marks).	Qn No.	MARKS	INITIAL
3. Section B has 12 questions (60 Marks).		1 - 5		
Attempt all questions in both sections. All answers to both sections A and B must be written in the appear provided.		6 - 10		
		11 - 15		
	5. All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil. 6. Unnecessary alteration of work will lead to loss of marks.			
To the second				
	riting that cannot be easily	25 - 26 27 - 28		
	d to loss of marks. ything in the boxes indicated:	29 - 30		
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"FOR EXA	AMINER'S USE ONLY"	31 - 32		
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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- This paper has two sections: A and B.
- 2. Section A has 20 questions (40 Marks).
- Section B has 12 questions (60 Marks).
- 4. Attempt all questions in both sections, All answers to both sections A and B must be written in the spaces provided.
- 5. All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- 6. Unnecessary atteration of work will 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 boxes indicated:

For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1-5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		





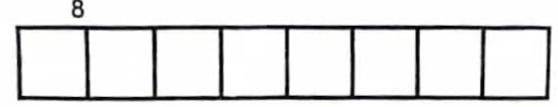
SECTION A: 40 MARKS

Attempt all questions in this section.

Questions 1 to 20 carry 2 marks each.

1. Work out: 65 + 43

2. Shade 4 of the figure below.



3. Write 40,001 in words.

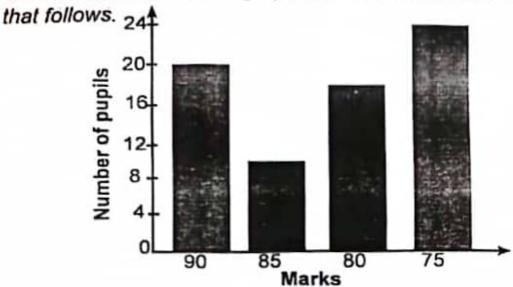
Given that set A={1,2,3,4,5,6} and set B={1,3,5,7,9}.
 List the elements in A∩B.

5. Find the next number in the sequence:

19, 15, 13, 9, 7, _____

6. Write 219 in Roman numerals.

The bar graph below shows marks scored by pupils in an examination. Study the graph and use it to answer the question



- 7. Find the total number of the pupils who scored above 80 marks.
- 8. Write 0.07050 in standard form.

9. Work out: 6 - (0.5)2

10. Solve: t - 3 = 2(finite 5)



11. Find the perimeter of a square whose area is 400m².

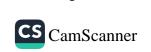
12. Given that 2b = 8, find the value of 5b.

13. One afternoon, Mayo slept for 2 hours and woke up at the time shown on the clock face below. At what time did she go to bed?



14. A 250g packet of groundnuts costs sh.500. How much will a parent pay for packets that weigh 2kg?

15. Use a protractor to draw an angle of 105°.



16.	Simplify:	1	(2a	_	8)
		2			

17.Kato bought a goat for sh.190,000. At what price should he sell it in order to gain sh.45,000?

18.Given that 💮 💮 💮 🏵 🥎 represents 30 balls, how many balls are represented by 🏵 💮 ?

 The interior angle of a regular polygon is 135°. Find the number of sides of the polygon.

20. Given that $2^m \times 5^n = 200$, find the value of m and n.

P.7 MATHEMATICS SPECIAL SET EXAMINATIONS - 2024

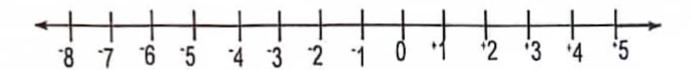
SECTION B: 60 MARKS

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.

21.(a) Work out: -4 - -7 using the number line below.

(03 marks)



(b) Find the solution set that satisfies the inequality below; 2<x <7 (02 marks)</p>

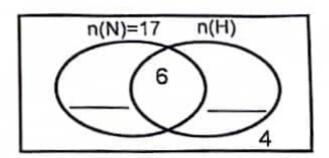
22.(a) Using a ruler, a pencil and a pair of compasses only, construct a triangle JKL in which JK=7 cm, angle JKL = 60° and angle KLJ =45°.
(04 marks)

(b) Measure line KL.

(01 mark)



- 23. Out of a group of fishermen, 17 use nets (N), (2k 3) use hooks (H) only, 6 use both nets and hooks, and 4 use other fishing equipment.
 - (a) Complete the Venn diagram below using the information given above. (02 marks)



- (b) If 24 fishermen use only one of the mentioned fishing equipment;
- i) find the value of k.

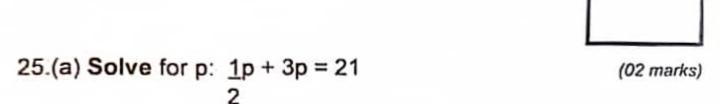
(02 marks)

ii) find the total number of the fishermen in the whole group.
(02 marks)

- 24. The number of cows on Gateete's farm decreased in the ratio of 2:5 after selling 36 cows.
 - (a) Calculate the total number of cows that Gateete's farm had before selling. (02 marks)

(b) Find the number of cows that remained on the farm.

(02 marks)



26.Shamim went shopping and bought the fruits shown in the table below:

Item	Quantity	Unit cost	Amount
pineapples	2 pineapples	Sh.4,200 each pineapple	sh.8,400
oranges	6 oranges	Shfor 3 oranges	sh.30,000
apples	apples	Sh.1,500 an apple	sh
Total expenditure			sh.42,900

(a) Complete the table

(04 marks)



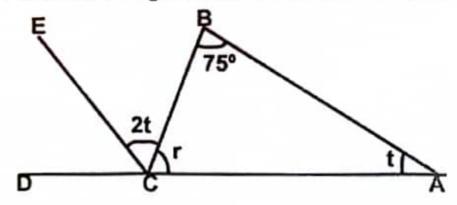
(b) If Shamim remained with Sh.5,000, how much did she had first?	ave at 2 marks)
27. In a class, there are 40 girls and 60 boys. One Friday, 1 of were absent and 2 of the boys were present.	of the
(a) Find the number of pupils who were absent that Friday	y. (03 marks
(b) Find the fraction of the whole class that was present the	hat
	(02 marks)

28. The radius of a wheel of a wheelbarrow is (x – 4) cm and its di ameter is (x + 10) cm;
(a) Find the value of x.
(02 marks)

(b) If the wheelbarrow is pushed through a distance of 440 metres, find the number of revolutions it will make. (03 marks)



29. In the figure below, AD is a straight line, angle ECD = angle ECB and ABC is a triangle. Use it to answer the questions that follow.



Find the size of; (a) angle t.

(02 marks)

(b) angle r

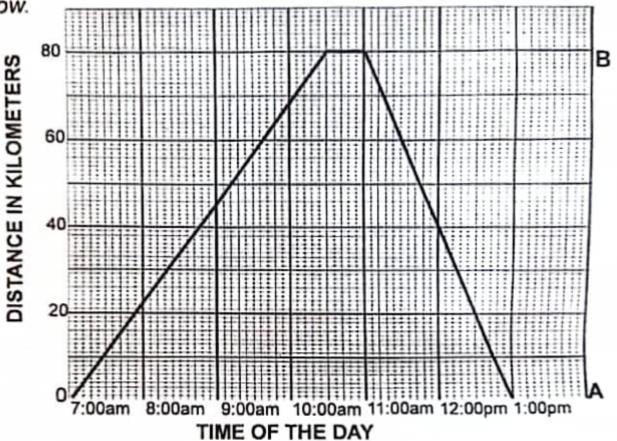
(02 marks)

30. Teo left her home at 7: 45 am and drove at an average 10 metres per second for 30 minutes to her work place	
(a) At what time did Teo arrive at her work place?	(02 marks)
(b) Calculate the distance in kilometres between Teo's	s home and
her place of work.	(03 marks)
 A tap pouring 7 litres of water per hour, filled the tin be 	elow in 12
hours. h 30 cm	
(a) Find the capacity of the tin in litres.	(02 marks)

(b) Calculate the height (h) of the tin in cm.

(03 marks)

32. The travel graph below shows a journey by bus from town A to town B and back to town A. Use it to answer the questions that follow.



- (a) Find the total time taken by the bus over the entire journey.

 (01 mark)
- (b) How much longer did the bus take to travel from town A to town B than it took to travel from town B to town A? (02 marks)

(c) Calculate the average speed of the bus over the whole journey. (02 marks)