

THE PRIME EXAMINATIONS 2022

P.7 PRE - PLE TRIAL SET IV

MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

INDEX NO:	Random No.			Personal No.		5 6	classwork ath Prime Learn
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School Rand	om No						
District ID:							

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. Do not write your school or district name anywhere on this paper.
- 2. This paper has two sections: A and B Section A has 20 questions and section B has 12 questions.
- 3. 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.
- 5. No calculators are allowed in the examination room.
- 6. Unnecessary changes in your work and handwriting 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 those boxes inside the qu stion paper.

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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		,
11 - 15	3	
16 - 20		4.
21 - 22		
23 - 24	,	
25 - 26		7.
27 - 28	中華	· · · · · ·
29 - 30		
31 - 32		
TOTAL		1

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APPROVED: Consultant Mathematics Department (PE

PUBLISHERS OF:

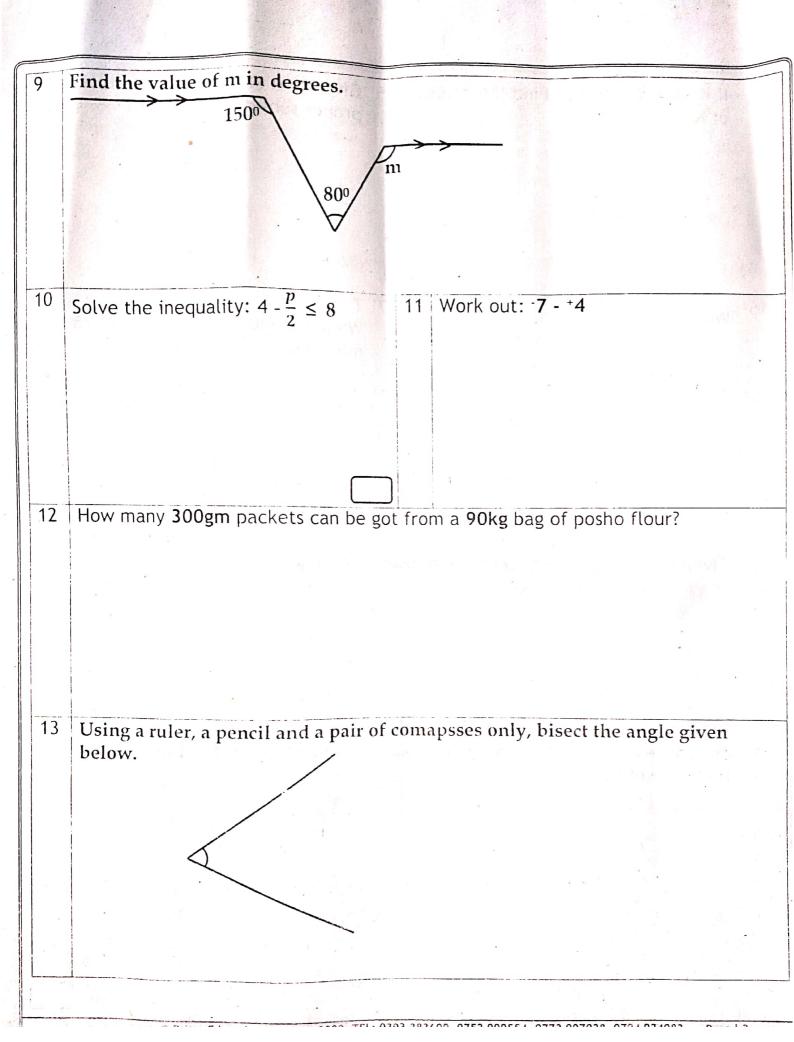
THE PRIME; SCHEMING FRAME WORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES AND MORE...

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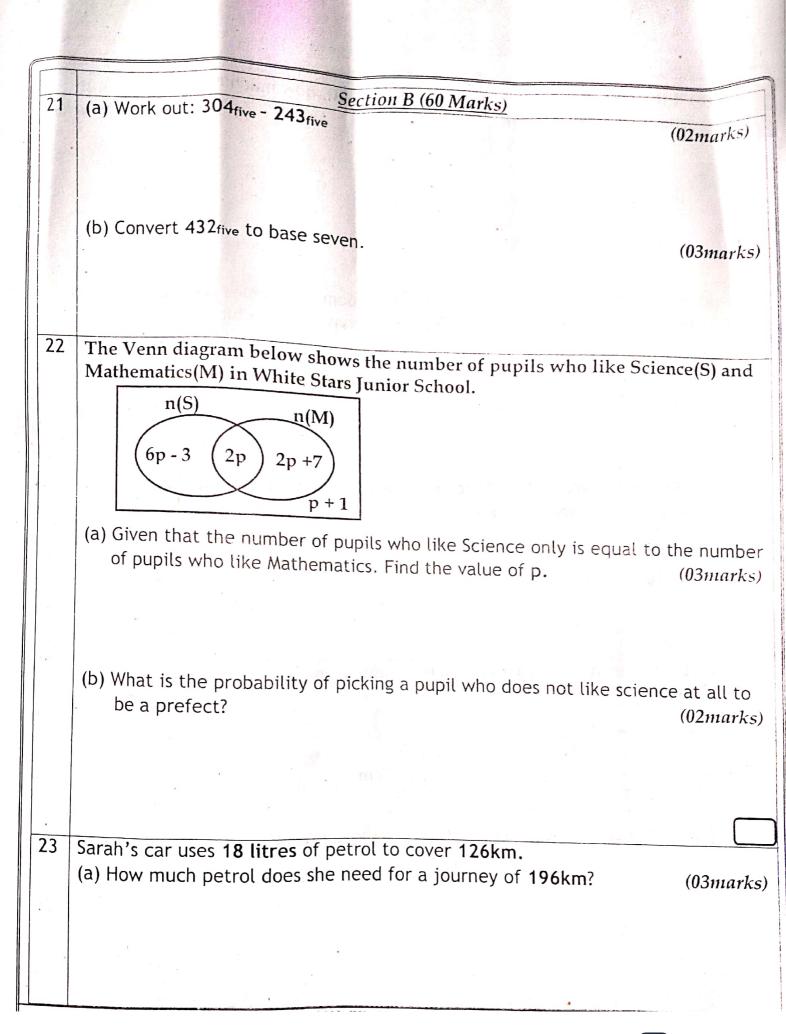
Turn Over



ð.	Section A	(40 N	Marks)
1	Workout: 68 - 36	2	Write 70596 in words.
3	Given that set A= {1,2,3,5,6,7,8,9}	4	Find the reciprocal of three quarters.
	and set B = $\{2,4,6\}$. Find $n(A \cap B)$		Tind the reciprocat of tinde quality
-			
ii.			
5	The average age of 16 pupils is 12 years. What is their total age?	6	Find the next number in the sequence below. 256, 64, 16, 4,
			230, 04, 10, 4,
7			
7	George paid sh.80,000 for a radio after a discount of 20%. What was the marked price of the radio?	8	A motorist covered 90km in 45 minutes. At what speed was he travelling in km/hr?
		,	
		3 11	
		-	



	1			
14		If K +5 = 3 mode 7. Find the value of K.	15	Given that set $T = \{8,7,2\}$, how many proper subsets can be got from set T ?
AND REPORT OF THE PARTY OF THE				
1	6	Work out: $\frac{8}{9} - \frac{1}{4}$	17	The tip of a minute hand is 7cm long. What distance does it cover in 25 minutes.
		· · · · · · · · · · · · · · · · · · ·		
	18	Given that கொர்க் represents 18 hou	ises	, how many houses are represented by
		•		
	19	The range of d and -9 is +8. Find	20	Work out: (93 x 8) - (48 x 8)
		the value of d.		
		• • •		
			1	



	(b) If the cost of 2 litres of petrol is sh.10,000, how much money doe spend to cover 196km?	s Sarah (02marks)
24		
24	(a) Antonia has a bicycle tyre of diameter 56cm . If he rides through a of 0.88km.How many complete revolutions does the bicycle tyre	
		(OSHIII KS)
	(b) If Antonia's tyre makes 25 revolutions per minute, how long does to cover the given distance?	it take him (02marks)
25	Circular tins of A were packed in a rectangular box B. B	
	40cm A 8cm	
	(a) How many tins were packed in the first three layers?	(03marks)
and a		

(b) Find the volume of the rectangular	box.

(02marks)

26 (a) Solve for n:
$$2^{3n} = 2^3 \div 64$$

(03marks)

(02marks)

- 27 A school bursar issued receipts worthy sh10,000 numbered from 4572 to 4771.
 - (a) How many receipts did the bursar issue?

(02marks)

(b) How much money did the bursar collect?

(02marks)

28	Kavule takes (P+2) hours to travel from X to Y. It takes him 2 more havel from town Y to Z. If the total journey takes him 10 hours, how does he take to travel from X to Y?	nours to much time (05marks)
		*
29	The figure below represents a rectangular metallic sheet to be fold make a cylindrical tank.	ded to
	35cm	
	176cm	
	(a) Find the area of the circular sheet needed to cover the bottom.	(04marks)
	(b) Find the volume of the cylinder formed.	(02marks)

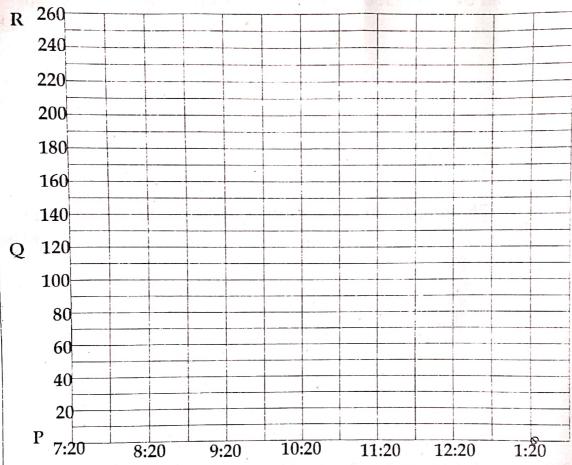
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Ksh Us\$ Pond sterling (a) If Hassan had Ugsh	37 3650 4300	* (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	38 3700 4400		
	.552500, now muc	in Kenya shil	iings was n	e given?	2m
				(0	21111
(b) Annet had 176 Uni	ted states dollars	how many n	ounds did	she get?	,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		odiras ara		Bma

A motorist left town P at 7:20am driving at an average speed of 40km/hr for 3hrs to town 32

- Q. He stopped at Q for 30 minutes and left for R driving at 50km/hr for $2\frac{1}{2}$ hrs.
- (a) Represent the motorist's journey on the graph below.

Use a scale of :-Vertical axis 1cm box to rept.10km Horizontal axis 1cm box to rept. 30mins.

(03marks)



(b) At what time did the motorist leave town Q for R.

(01mark)

(c) Write the arrival time at town R in 24hour clock system.

(01mark)

Hidden Tip For Excellence in Mathematics.

Understanding and appreciating that mathematics in not about memorizing isolated techniques but rather mastering concepts.