## THE SIPRO PRE-PLE SET I 2023 MATHEMATICS Time Allowed: 2 Hours 30 Minutes Random No. Personal Nc. Index No. Candidate's Name: Candidate's Signature: School Random No: District: for Examiner's Use Only: READ THE FOLLOWING INSTRUCTIONS CAREFULLY: . On No. 4 MARKS INTHALS 1. This paper has two sections: A and B. 1-5 2. Section A has 20 questions (40 Marks). 3. Section B has 12 questions (60 Marks). 6-10 4. Attempt all questions in both sections. All 11-15 answers to both sections A and B must be 16-20 written in the spaces provided. 5. All answers must be written in blue or plack 21-22 ball point pens or ink. Only diagrams and 23-24 graph work must be cone in pencil. 6. Unnecessary alteration of work will lead to 25-26 loss of marks. 27-28 7. Any handwriting that cannot be easily read may lead to loss of marks. 29-30 8. Do not fill anything in the boxes indicated: 31-32 "FOR EXAMINER'S USE ONLY" Total

Please turn over

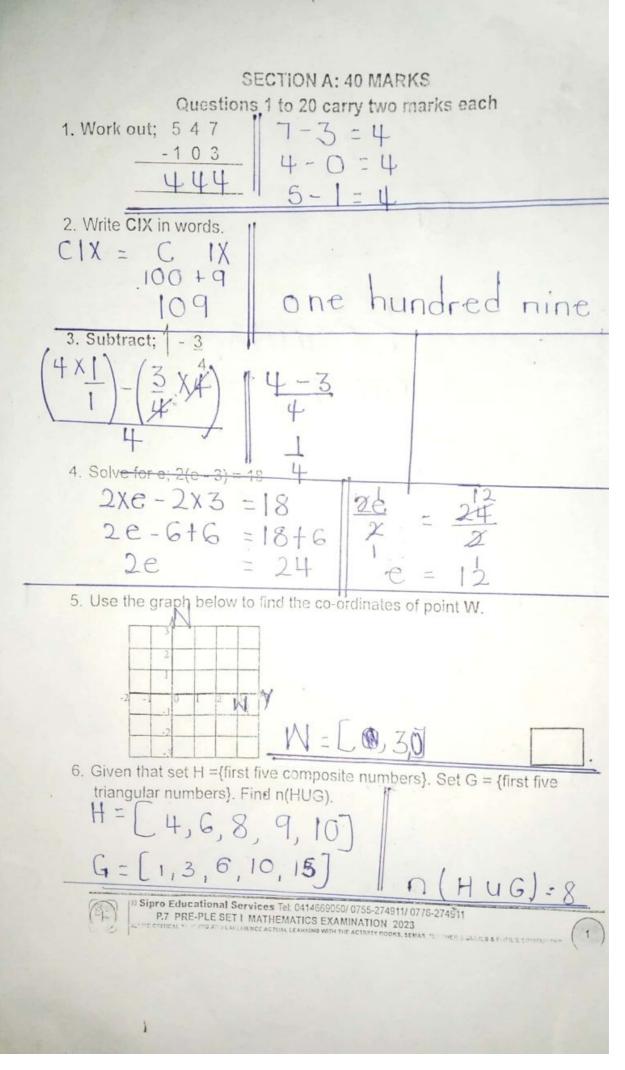


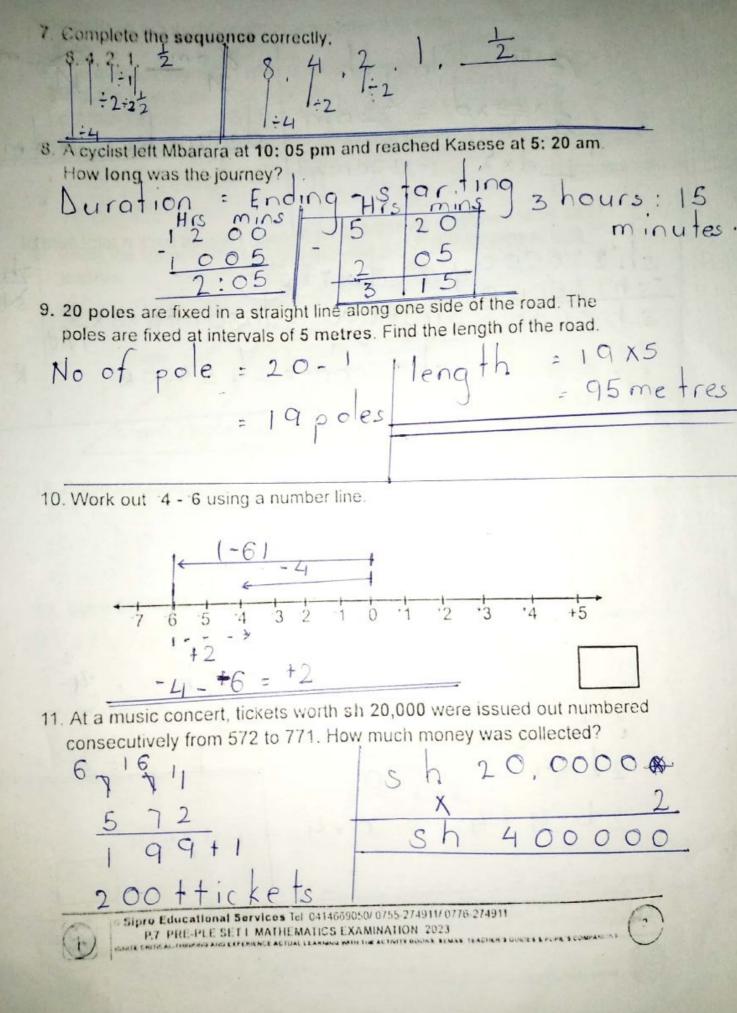
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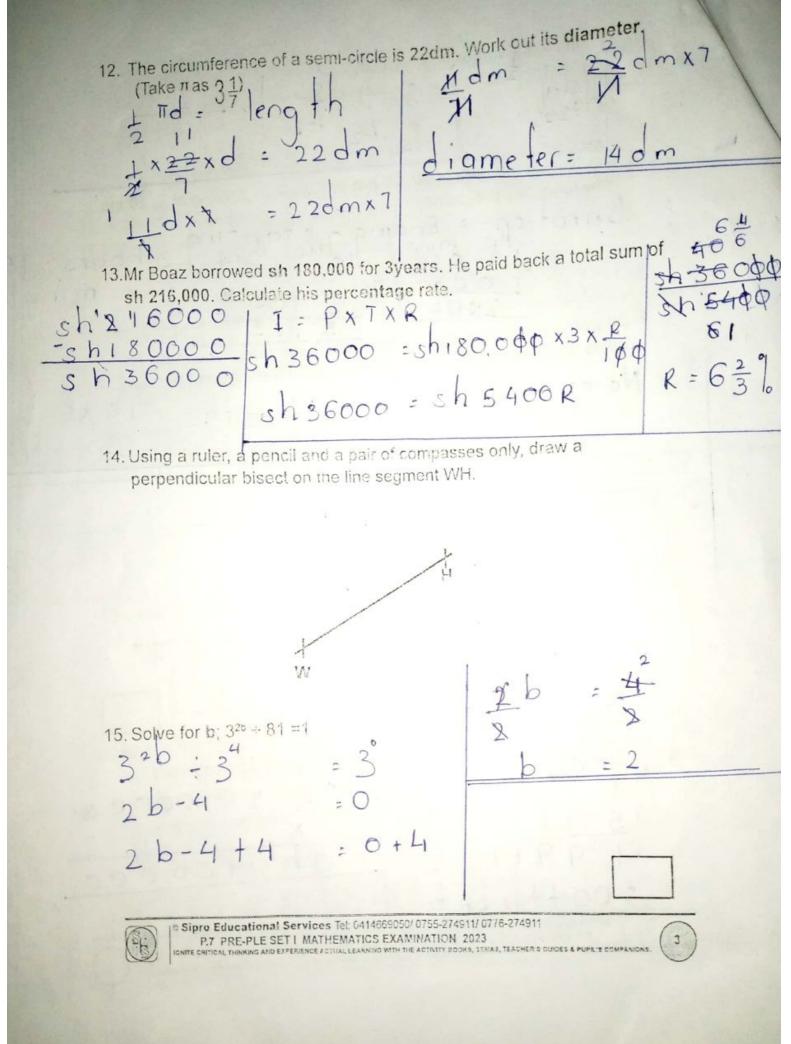
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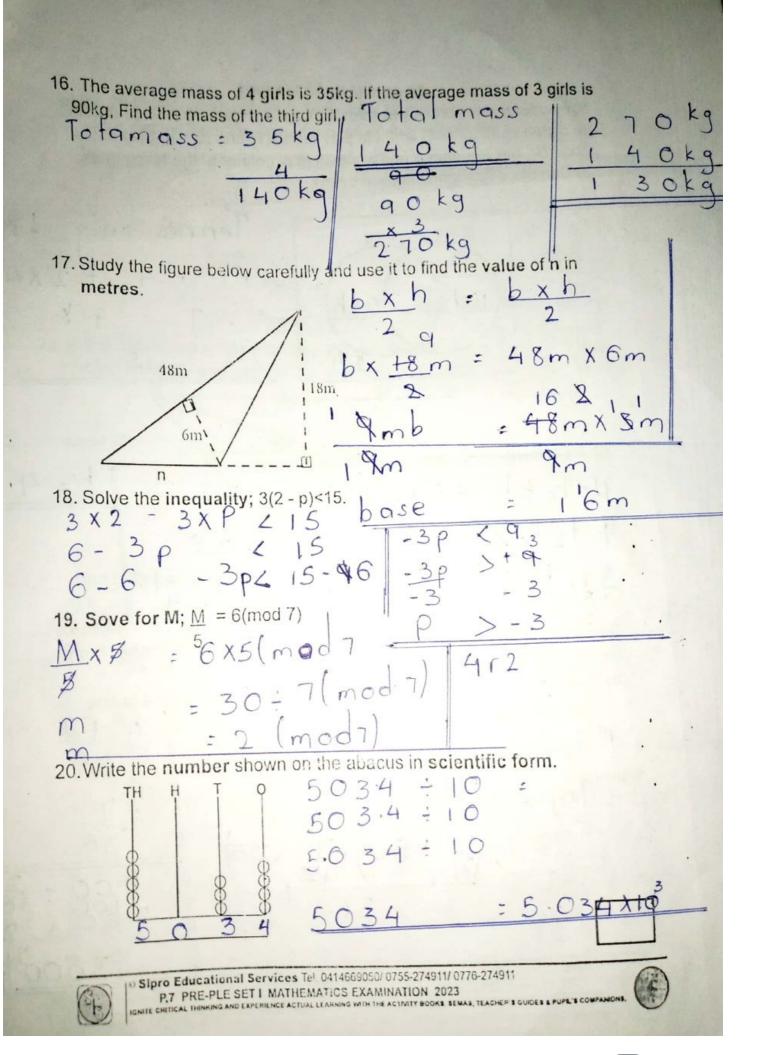
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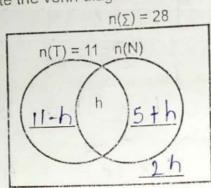




## SECTION B: 60 MARKS

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

- 21.In a club of 28 girls, 11 of them play tennis(T) and (5 + h) play netball only (N), h play both games while 2h play neither of the two games.
  - a) Complete the venn diagram below.



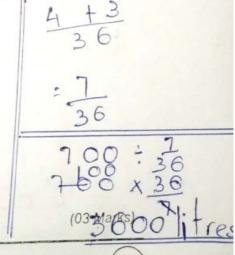
Tennéss only Inone

(03 Marks)

b) How many girls never played netball?

$$= 28$$
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- 22. Tap W fills a tank in 9 minutes and tap Z takes 3 minutes longer than Tap W to fill the same tank.
  - (a) If 700 litres of water are poured in the tank by all the taps in one minute, find the capacity of the tank.





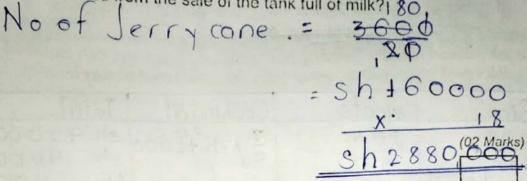
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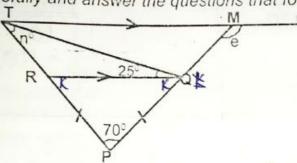
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b) If a 20 litre jerrycan of milk is sold at sh 16,000; How much money was collected from the sale of the tank full of milk? | 80



23. In the figure below, line PR= line PQ and line TM is parallel to line RQ. Study it carefully and answer the questions that follow.



Find the size of angle;

$$1)^{n}$$
 K + K + 70 = 180  
 $2^{4}$  K + 70 - 70 = 180 - 7  
 $5^{5}$  =  $\frac{180}{2}$   
 $1^{2}$  K =  $\frac{1}{2}$  E =  $\frac{1}{$ 

$$n = 55^{\circ} - 25$$

$$= 30^{\circ}$$

$$0 = 180^{\circ} - (125^{\circ} + 25^{\circ})$$

$$= 180^{\circ} - 80 = 150^{\circ}$$

$$= 30^{\circ}$$

$$e^{\circ} = 186^{\circ} - (55^{\circ} + 25^{\circ})$$

$$= 180^{\circ} - 80$$

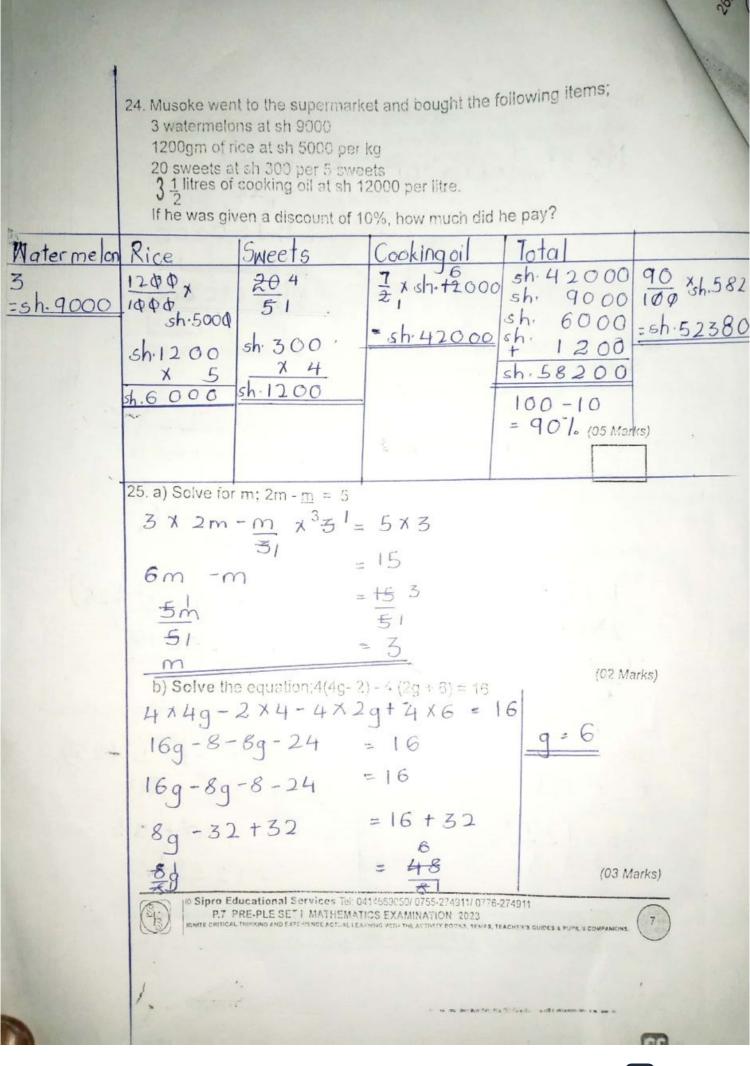
$$= 100^{\circ} + 25$$

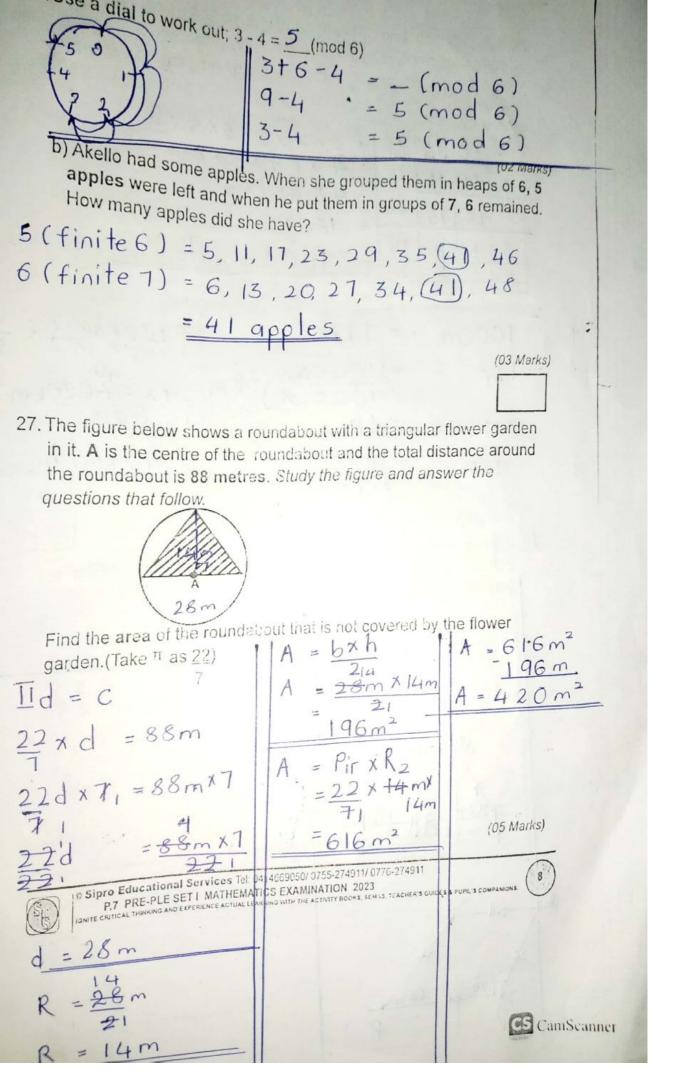
$$= 125^{\circ}$$
(02 Marks)

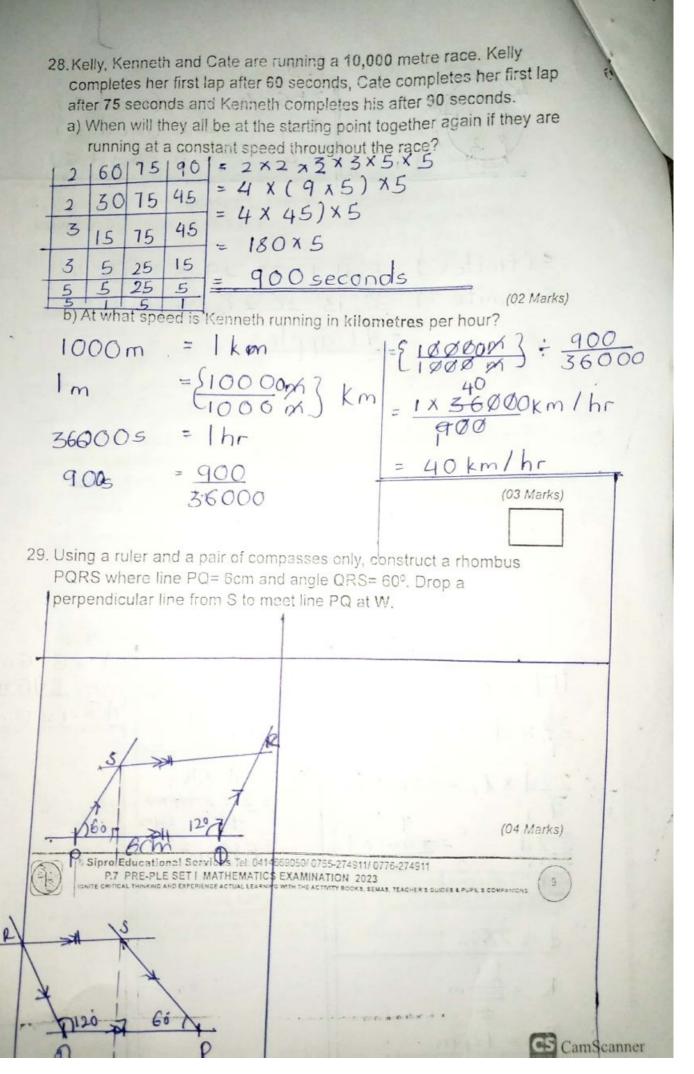


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- b) Measure angle PSW.
- 30. The table below shows a journey by a bus from town V to town Z via (01 Mark) town W,X and Y. Study and use it to answer the questions that follow.

Distance in km	Towns	Departure	Arrival
0	V	8: 00am	
56	W	9: 45am	9: 00am
113	X	11: 20am	11: 00am
165	Y	2: 10pm	1: 00pm
277	Z	6: 50pm	6: 10pm

a) What is the distance in kilometres from town X to town Z?

(01 Mark)

b) What is the arrival time at Z in a 24 hour clock system?

00 1810

(01 Mark)

c) How long does the bus take stopping at W?

45 minutes

d) Calculate the average speed of the bus between town Y and town

Distance

A Spec	ed = D
,	T 28
	= 1 <u>+2 km</u>
	# hr
	= 28 km/hrs
	(02 Marks)



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31 Mr Okobol, a poultry farmer collects 15,600 eggs a day on his farm and packs them on trays which carry 30 eggs each. His vehicle carries 40 trays per trip to the market. How many trips will the vehicle make in order to transport all the day's eggs? No of trips:

1 trip = 520 toars

#0 trays

= 13 trips = 520 trays (03 Marks) Given that; y = 3x-5, complete the table below. 7 = 1 XB1-5 7 =3×4-5 7=3×3-5 = 9-5 Sipre Educational Services Tel. 04116.39050/0755 274911/0776-274911
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