## THE ARIAL EXAMINATIONS®

## P.7 MATHEMATICS EXAMINATION

PRE-PLE SET V 2022 (Abridged Curriculum)

time allowed: 2 nours 30 minutes									
Index No.	Random No.						Personal number		

Candidate's Name:			 	
Candidate's Signatı	ıre			
School Random nur	mber:			
District No. :				

## Read the following Instructions carefully:

- 1. Do not write your **school** or **district name** anywhere on this paper.
- 2. This paper is made up of two sections: A and B.
- 3. Section A has 20 questions (40 marks).
- 4. Section B has 12 questions (60 marks).
- 5. Answer ALL questions in both sections A and B.
- 6. All answers must be written in spaces provided using blue or black pens or Ink. Only diagrams should be done in pencil.
- 7. Unnecessary crossing of answers will lead to loss of marks.
- 8. Do not fill anything in boxes indicated for examiners' Use only.

## **PLE TIP 2022**

Don't be afraid to ask your teachers for help. They will be glad to assist

FOR EXAMINERS' USE ONLY				
page	Marks	Initials		
1-5				
6-10				
11-15				
16-20				
21-22				
22-24				
25-26				
27-28				
29-30				
31-32				
TOTAL				

Approved	by
----------	----

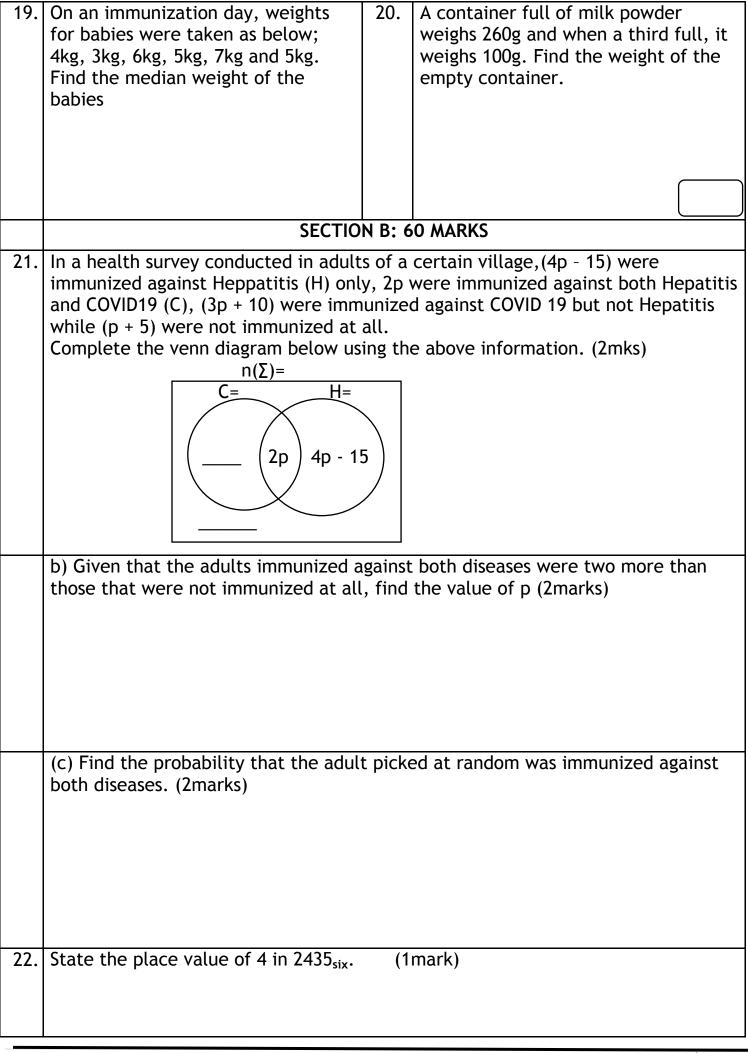
Team Leader

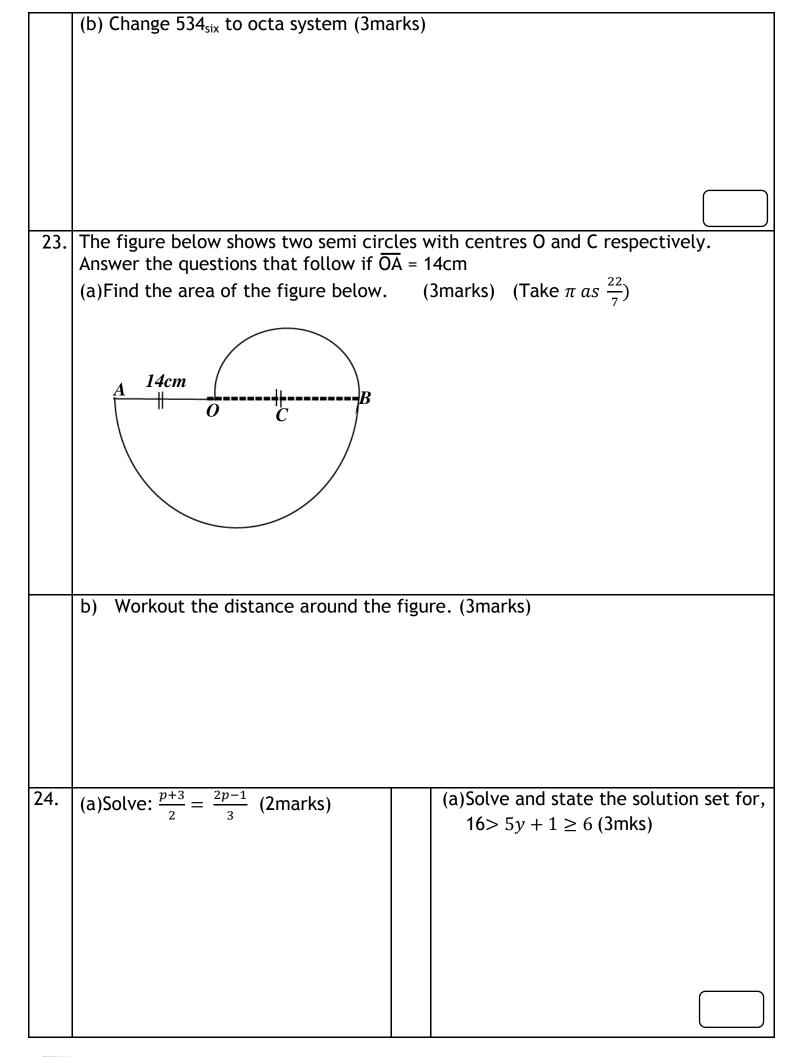


WE WISH YOU SUCCESS IN YOUR PLE

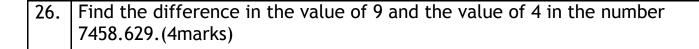
SECTION A (2 MARKS EACH)						
1.	Work out: 398 – 156.	2.	Write in figures: Eighty thousand, Fifty.			
3.	Simplify: -85	4.	Find the next number in the sequence; 1,2,6,15,31,			
5.	Draw beads for 3046 on the abacus below.  TH H T O	6.	Write $12\frac{1}{2}\%$ as a simplified common fraction			
7.	7. In the diagram below, find the size of angle $\kappa$ in degrees.					
	50° K					
8.	8. Given that $x = 7$ and $y = 6$ . Find the value of $y(x-y)^2$ .					
9.	Set R = {w,i,n}. How many subsets are in set R?	10.	7 metres of a cloth are used to make 22 shirts. How many metres of the same cloth are needed to make 110 shirts of the same size?			

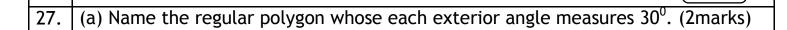
11.	tenths.	12.	A rectangular sheet below was curved to form a cylindrical hollow. 28dm $\frac{44dm}{5}$ Find the radius of cylindrical hollow formed. $(Take \ \pi \ as \ \frac{22}{7})$
13.	Work out: 1 ÷ 6 (Finite 7)	14.	Write 0006 hours in a 12 hour clock.
15.	Using a ruler, a pencil and a pair of c = 7cm	ompas	sses only, bisect the line segments WF
16.	A motorist covered a distance of 50ki the motorist to cover 45km at the sai		hour 30 minutes. How long can it take eed?
17.	Simplify: m <sup>8</sup> x m <sup>-7</sup>	18.	Water and milk are mixed in the ratio of 5:2 to make tea for a party. How many litres of milk are mixed with 100 litres of water?



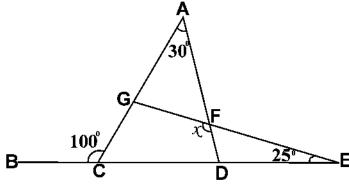


25.	Atwine filled a cylindrical tank whose diameter is 40cm and height 140cm with a
	fruit juice. If he sells it at sh 1000 per half litre, how much money will he get?
	(use $\pi as \frac{22}{7}$ ) 5marks





(b) In the diagram below, find the size of angle x in degrees. (3marks)



28.	The table below shows the scores of some candidates in a mathematics test.  (a) Complete the table below. (3marks)
	Score(%) Pupils Total score
	70 / 70
	90 180
	80
	(b) Calculate their mean score. (2marks)
29.	A teacher spends 20% of his monthly salary on rent, 25% on food, $\frac{5}{9}$ of the
	remainder on fees and saves sh 110,000. Calculate the teacher's monthly salary.
	(5marks)
20	Heiner a malar a pareil and a pair of company and a
30.	Using a ruler, a pencil and a pair of compasses only, (a)Construct a triangle GAT in which GA = 6.8cm, angle TGA = 75° and angle GAT
	$= 60^{\circ}. \text{ (4marks)}$
	(c)Measure line AT. (01marks)

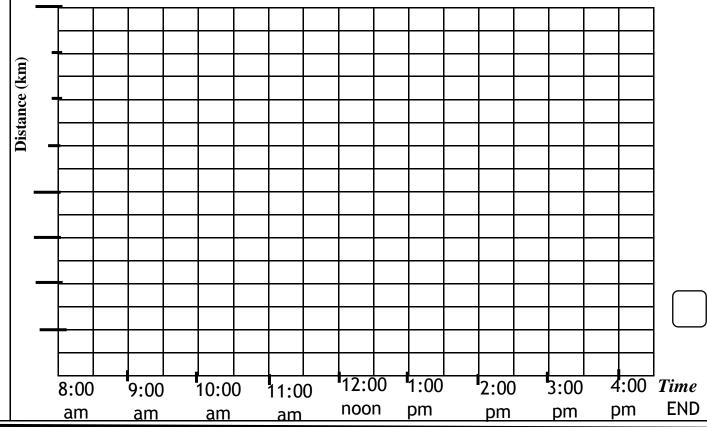
31. The table below shows the rate at which different currencies were sold and bought at a forex bureau during a certain month.

Currency	Buying in Ugsh	Selling in Ugsh
1Euro (€)	4000	4020
1 Rwandese franc	4	5
1 US dollar \$	3600	3650

(a) How many Euros did Elia get for Ugsh 904500? (2marks)

(b)Mariat came from Rwanda with 219000 Rwandese francs and exchanged them for Us Dollars. How many US dollars did she get from the forex bureau? (3marks)

32. A motorist left town R at 8:00am and drove at 90km/h for an hour to town W. He rested for half an hour at town W. He left town W and drove for an hour at 70km/h to town F. He rested for half an hour at town F. He then left town F and drove back to town R at a steady speed of 40km/h. Draw the motorist's journey on the graph below.



10:00 alfi:00