## THE ARIAL EXAMINATIONS®

Time allowed: 2 hours			
School No.	Person	al numbe	r
Candidate's Name:			
Candidate's Signature			
District Name:			
Read the following Instructions carefully:	FOR EXA	MINERS' USE	ONLY
This paper is made up of two sections: A and B.			
. Section A has 20 questions (40 marks).	page	Marks	Initia
. Section B has 12 questions (60 marks).	Page 2		
Answer ALL questions in both sections A and B.	Page 3		1
All answers must be written in spaces provided	Page 4		-
Using blue or black pens or Ink. Only diagrams			<u> </u>
Should be done in pencil.	Page 5		
Unnecessary crossing of answers will lead to	Page 6		
Loss of marks.	Page 7		
. Do not fill anything in boxes indicated for	Page 8		
Examiners' Use only.	Total		<u> </u>
Subject teacher's Comment to the learner	Total		
	Appr	oved by	
		•••••	
	Team	Leader	

	SECTION A:	.0 10	
1.	Work out : 71 + 27	2.	Write in figures: Ninety eight thousand, fifty seven
3.	Workout: $\frac{7}{12} \div \frac{7}{15}$	4.	Find the sum of the first three square numbers
5.	Find the value of : 3 <sup>2</sup> + 8 <sup>0</sup>	6.	In the Venn diagram below, describe the un-shaded region
7.	What number has been expanded below? (6 x 10 <sup>2</sup> ) + (7 x 10 <sup>0</sup> ) + (5 x 10 <sup>-1</sup> )		

8.	Find the bearing of town R from town W	in the	e diagram
0.	Town R Town W		a diagram
9.	Bamwine covered a distance of 9km. What distance did he cover in centimeters?	10.	Solve: $\frac{y}{3} - 1 = 2$
11.	Today is Wednesday. What day of the week will it be after 31 days?	12.	Musa's journey which lasted for $1\frac{3}{5}$ hours had started at 10:40am. When did it end?
13.	Find the next number in the sequence; 1	, 2, 8	, 48,
14	A trader sold a phone for sh.44000 and retrader's cost price for the phone?	ealize	ed a profit of shs.4000. Calculate the

15.	Using a ruler, a pencil and a pair of compasses only, construct an angle of 120° in the space below?	16.	Round off 69.54 to the nearest whole number.
17.	Given that set V ={m, a, r, k} and set W=	{c, a	, r, e}. Find the n(W) <sup>9</sup> .
18.	Convert 10m/s to Km/h.		
19.	Given that Ksh1=Ugsh36 and Us\$1=Ugsh 3 Ksh120000, how much money did he pay in		
20.	Find the volume of the solid below (Use π 30cm 21cm	as $\frac{2}{5}$	2,

	SECTION B {60 MARKS}
21.	In a class of 53 pupils, 20 pupils like debating (D) only, 4p like Music (M). If P pupils like both debating and music and 3 like neither of the two;  (a) Complete the Venn-diagram below. (02mks)  n(Σ)  P  D  P
(c)	Find the chance of picking a member who likes debating to be the class monitor. (02mks)
22.	The average weight 4 girls is 55kg. When their Matron joins, the average weight becomes 60kg. Find the weight of the Matron. (04mks)

) Change the ab	oove base three numb	oer to base five.	(03mks)
Study and compl	lete the table below	correctly (05mks)	
ITEMS	QUANTITY	UNIT COST	AMOUNT
lillet	2kg	Sh4000 per kg	sh
oap	bars	Sh8000 a bar	Sh 24000
leat	1 <sup>1</sup> / <sub>2</sub> kg	Shper kg	Sh 21000
alt	750g	Sh 2000 per kg	Sh
otal expenditur	e		Sh

25.	(a) Change 0.375 to a simplified comm	mon	fraction	(02mks)	
25.	(a) Change 0.373 to a simplified com	11011	maccion.	(OZIIIIG)	
	(b) Simplify: 0.48 x 1.8 72 x 0.24				
	72 X 0.24				
					(03mks)
26	In the diagram below, line AB is paral	llel t	o line KG. Use it	the answer the ques	stion
	that follow.				
	AB				
	1200 1350				
	$d^0$				
	$g^0$				
	K G				
	Find the angle g.	b	Angle d	(03mks)	
	(02mks)		Aligie d	(031111(3)	

27. Ruth, Rinah and Ritah shared a certain some of money in the ratio of 3:9:16 respectively. If Ritah got sh6500 more than Ruth, (a) How much money did they share altogether? (3mks)  (b) Calculate Rinah's share (02mks)  28. The area of a circular card is $616 \text{cm}^2$ .  a) Find its radius(r) ( $\pi = \frac{22}{7}$ ) (03mks)	
(b) Calculate Rinah's share (02mks)	
28. The area of a circular card is $616 \text{cm}^2$ .  a) Find its radius(r) $(\pi = \frac{22}{7})$ (03mks)	
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(b) Workout the circumference of the card. (02mks)	
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29	Village M is on a bearing of 150° from village N which is 50km away and village P is 40km from M on a bearing of 250°.  (a) Using a scale of 1 cm to represent 10km, show the location of the three villages on an accurate diagram.  (05 mks)
	(b) Find the shortest distance from village N to P. (01mk)
30.	A boy left his home at 7:30am for market riding a bicycle and arrived to the market 30km away at 9:10am.Calculate the boy's speed. (04mks)
31.	(a) Solve: 8 - P ≤ 3 (02mks)

