OUTREACH SCHOOLS EXAMINATIONS BOARD

P. 7 EXAMINATION SET 6 MATHEMATICS.

Time allowed:2hrs:30mins

INDEX	NUMBER									
NAME:									-	
Signature:FOR EXAMINER'S USE ONLY										
Strea	ım								A	
Date									В	
	Read the following	ng instr	uction	s caref	<u>ully</u> :				TOTAL	
1.	This paper is ma	de up o	f secti	on A aı	nd B.					
2.	Section A has 20	short a	nswer	questi	ons (40	marks	s) .			
3.	Section B has 12	questio	ns (60	marks	s) .					
4.	All answers to bo	th sect	ion A	and B i	nust be	e writte	n in th	e space	es provide	d.
5.	All answers must	be wri	tten ir	ı blue i	nk and	diagra	ms sho	ould be	drawn in	pencil.
6.	Any handwriting	that ca	annot	easily b	e read	will lea	ad to lo	ss of m	arks.	
7.	Unnecessary alte	ration (of wor	k may	lead to	loss of	marks	S.		
8.	No calculators ar	e allow	ed in	the exa	minati	on roor	n.			
	TEACHER'S	COMN	TENT	[
	SIGNATURE									
	Date:									

SECTION A:40 MARKS

Questions 1 to 20 carry two marks each

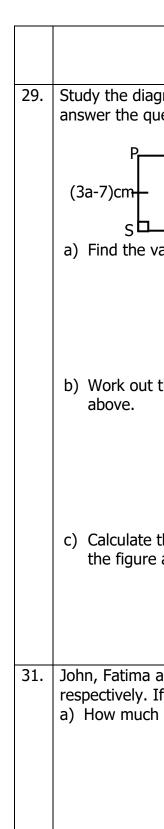
1.	Work out: 21 ÷ 3	2.	Write "Four hundred nine" in Roman numerals.
3.	Simplify: 2(a – 4) – 2 (a + 5)	4.	Twelve litres of milk were given to some children. If each child got ¾ of a litre of milk, how many children got milk?
5.	The LCM of two numbers is 60 and their GCF is 3. If one of the numbers is 15, find the second number.	6.	Find the size of angle y in the figure below. 500 7y
7.	Andrew deposited sh.600,000 in the bank that offers an interest rate of 3% per year for 1 ½ years. Find the interest earned by Andrew.	8.	Change 25m/s into km/hr.

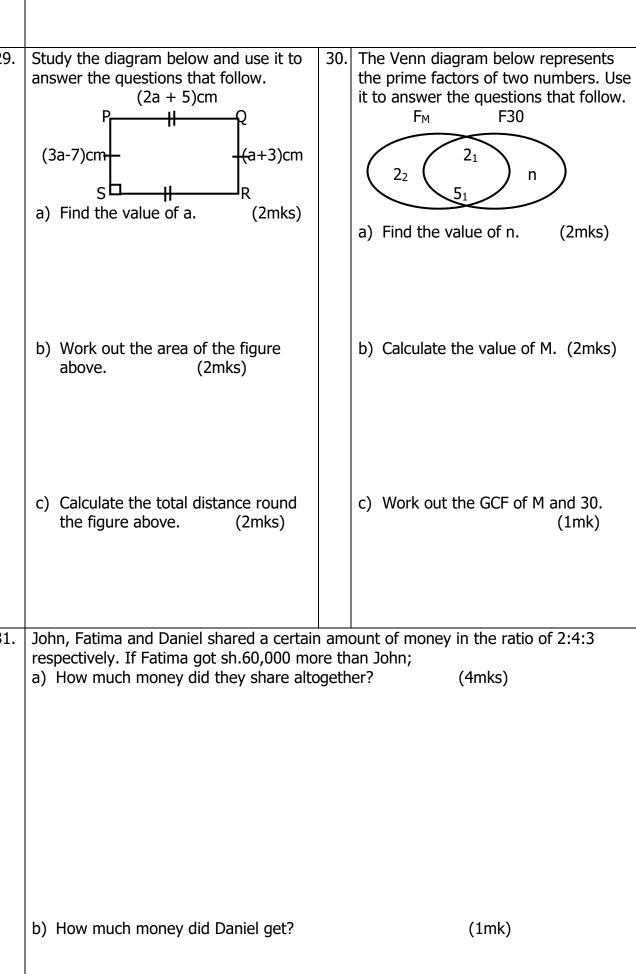
9.	A mathematics lesson ended at 1:25pm. If it had lasted for 1 ¾ hours, at what time did the lesson start?	10.	In the space below, construct an angle of 45°.
11.	Show 134 _{six} on the abacus.	12.	Increase sh.4000 by 12%.
13.	If today is Thursday, what day of the week was it 33 days ago?	14.	What is the 99 th equivalent fraction of $\frac{2}{5}$?
15.	Find the range of -9 and -5.	16.	Solve: $5 - 3x = 17$
17.	Work out: 5¾ ÷ 2 ¼	18.	Calculate the radius of the circle whose circumference is 88m. (Take $^{\pi}$ as $^{22}/_{7}$)

	T	1	
19.	If 5 men take 4 days to paint the house, how many more days will 2 men take to paint the same house?	20.	What is the least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3?
	SECTION B:	(60 l	MADKS)
21.	At a party of 45 guests, 30 drink soda(S), 20 guests drink water(W) only, k drink both soda and water while 4 guests do not drink any of the two drinks. a) Complete the Venn diagram below. (3mks) $n(\Sigma) = 45$ b) Find the value of k. (2mks)	22.	
	c) How many guests drink only one drink? (1mk)		b) Work out the total surface area of the figure above. (2mks)

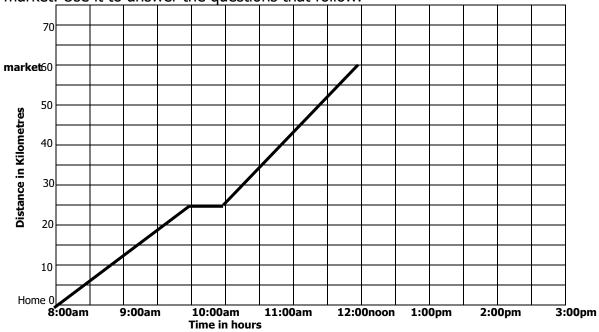
23.					table is the emplete the			ally, ho	rizontal (5mks		agonally.
	1	15	14	4		, cab	C.		(Silling)	<i>'</i>)	
	12		7	9	-						
	8	10		5	-						
			2		-						
		l	•	•	_						
24.	a) Usin	ıg a ruleı	r and a	pair of	compasse	s onl	y, const	truct a	triangle	POR in v	which PO
					and angle C				J	·	
	h) Moa	curo tho	lino ∩l) (1ml	k)						
	р) меа	sure the	ille Qi	χ. (1IIII	K)						
25.					arks scored			n a mat	hematic	s test.	
		scored er of pup			70 90 1 3	4)				
		many p			_			(2ml	(s)		
	h) Find	the me	do ccor	0	(1mk)						
	D) FIIIG	i tile illo	ue scor	e.	(1mk)						
	c) Wor	k out the	e mean	mark	of the pupi	s wh	o score	d abov	e 70 ma	ırks. (2m	ks)

_										
26.	a) Work out: 0.24 x	1 5								
	0.8 x									
	b) Simplify: $\frac{2}{3} + \frac{3}{4} \div \frac{5}{4}$	5	(2mks)							
27.	Mukasa went to the r	narket and bo	ught the items as showr	on the table below	w.					
	Item	Quantity	Unit price	Total cost						
	Sugar	2kg	Sh.3,500perkg	Sh						
	Meat	kg	Sh.8,000per kg	Sh. 24,000						
	Milk	2 ½ litres	Sh.1,200each litre	Sh						
	Bread	4 loaves	Sh@loaf	Sh						
		Total expend	diture	Sh. 42,000	1					
	Complete the table al			· ·	J					
28.	a) $\frac{2}{3}y + 4 = 10$	13)	nks)							
	b) Olupot was 5 year is 55 years now, h		nis brother Jamwa ten ye nwa now?	ears ago. If their to (2mks)	ital age					





32. The travel graph below represents the journey of Mr. Okot from his home to the market. Use it to answer the questions that follow.



(1mk)

(1mk)

(1mk)

- a) What is the scale on vertical axis?
- b) How far was Mr. Okot at 10:30am?
- c) At what time did Mr. Okot reach the market?
- d) Calculate the average speed of Mr. Okot for the whole journey. (2mks)

End