OUTREACH SCHOOLS EXAMINATIONS BOARD

P. 7 EXAMINATION SET 6 MATHEMATICS.

Time allowed:2hrs:30mins

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INDEX	NUMBER						
NAME:						_	
Signa	nture:				FOR EXA	MINER'S U	SE ONLY
Strea	m					A	
Date						В	
	Read the following ins	tructions care	fully:			TOTAL	
1.	This paper is made up	of section A a	nd B.				
2.	Section A has 20 short	answer quest	ions (40	marks	i).		
3.	Section B has 12 quest	ions (60 mark	s).				
4.	All answers to both see	tion A and B	must be	writte	n in the spa	ces provide	d.
5.	All answers must be w	ritten in blue	ink and	diagra	ms should l	e drawn in	pencil.
6.	Any handwriting that	cannot easily	be read	will lea	ad to loss of	marks.	
7.	Unnecessary alteration	of work may	lead to	loss of	marks.		
8.	No calculators are allo						
	TEACHER'S COM						
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	SIGNATURE						
	Date:						

SECTION A:40 MARKS

Questions 1 to 20 carry two marks each

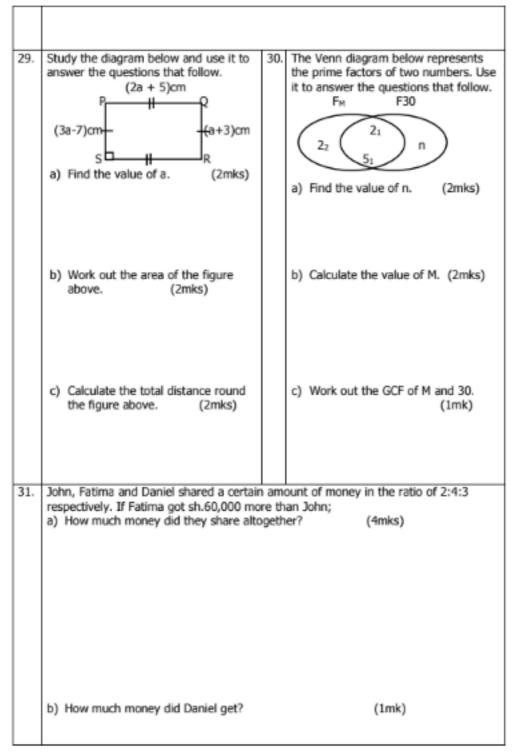
1.	Work out: 21 ÷ 3	2.	Write "Four hundred nine" in Roman numerals.
3.	Simplify: 2(a - 4) - 2 (a + 5)	4.	Twelve litres of milk were given to some children. If each child got ¾ of a litre of milk, how many children got milk?
5.	The LCM of two numbers is 60 and their GCF is 3. If one of the numbers is 15, find the second number.	6.	Find the size of angle y in the figure below.
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.

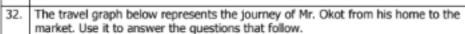
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9.	A mathematics lesson ended at 1:25pm. If it had lasted for 1 ¾ hours, at what time did the lesson start?	10.	In the space below, construct an angle of 45°.
11.	Show 134 _{six} on the abacus.		Increase sh.4000 by 12%.
13.	If today is Thursday, what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

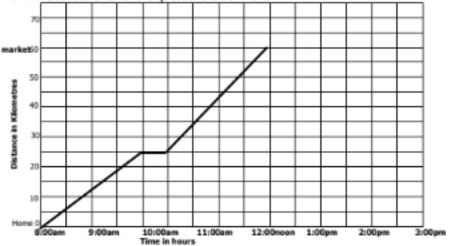
19.	If 5 men take 4 days to paint the house, how many more days will 2 men take to paint the same house?	20.	What is the least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3?
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-	SECTION B:		
21.	At a party 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)		The volume of the figure below is 0.24litres. Use it to answer the questions that follow. h 5cm a) Find the value of h. (2mks)
	c) How many guests drink only one drink? (1mk)		b) Work out the total surface area of the figure above. (2mks)

22	The sum of the values in the table is the same vertically beginned in and discountly
23.	The sum of the values in the table is the same vertically, horizontally and diagonally. Fill in the missing values to complete the table. (5mks)
	1 15 14 4 (Shiks)
	12 2 2
	12 7 9
	8 10 5
	2
24.	a) Using a ruler and a pair of compasses only, construct a triangle PQR in which PQ
	= 8cm, angle PQR = 45° and angle QPR = 60°. (4mks)
	b) Measure the line QR. (1mk)
	-,
25.	The table below shows the marks scored by pupils in a mathematics test.
20.	Marks scored 80 70 90 60
	Number of pupils 2 1 3 4
	a) How many pupils sat for the test? (2mks)
	b) Find the mode score. (1mk)
	b) Find the mode score. (This)
	 c) Work out the mean mark of the pupils who scored above 70 marks. (2mks)
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2	6.	a) \	Work out: 0.24 x 0.8 x	1.5			
			Simplify: $\frac{2}{3} + \frac{3}{4} \div \frac{1}{6}$		(2mks)		
Н							
L							
2	7.	Muk	asa went to the r	market and bo	ught the items as shown		
н			Item	Quantity	Unit price	Total cost	
П			Sugar	2kg	Sh.3,500perkg	Sh	
l			Meat	kg	Sh.8,000per kg	Sh. 24,000	
					Sh.8,000per kg Sh.1,200each litre	Sh. 24,000 Sh	
			Meat	kg	Sh.8,000per kg	Sh. 24,000	
			Meat Milk Bread	kg 2 ½ litres 4 loaves Total expens	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture	Sh. 24,000 Sh	
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2	8.		Meat Milk Bread	2 ½ litres 4 loaves Total expendove. (5mks	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture	Sh. 24,000 Sh	
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2	88.		Meat Milk Bread aplete the table at	2 ½ litres 4 loaves Total expendove. (5mks	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture	Sh. 24,000 Sh	
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2	8.	a)	Meat Milk Bread plete the table at	2 ½ litres 4 loaves Total expendove. (5mks	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture s)	Sh. 24,000 Sh Sh Sh. 42,000	
2	28.	a) :	Meat Milk Bread plete the table at y + 4 = 10	2 ½ litres 4 loaves Total expens oove. (5mks	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture s) mks)	Sh. 24,000 Sh	ge
2	8.	a) :	Meat Milk Bread plete the table at	2 ½ litres 4 loaves Total expens oove. (5mks	Sh.8,000per kg Sh.1,200each litre Sh@loaf diture s) mks)	Sh. 24,000 Sh Sh Sh. 42,000	ge







(1mk)

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- 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? (1mk)
- d) Calculate the average speed of Mr. Okot for the whole journey. (2mks)

End