SECTION A

1	Workout: 0 ÷ 2	2	Write four hundred ninety two in figures.
3	Given the sets C and D below. $ \begin{bmatrix} f \\ f $	4	Solve: 3p - 3 = 4 (finite8)
5	Express 60cm as a percentage of 3 metres.	6	What is the mean of $\frac{1}{2}$ and $\frac{1}{3}$?

7	In the diagram below, find the size of angle r.	8	Find the lowest common multiple of two numbers whose product and GCF is 360 and 6 respectively.
9	Work out: 4 x 10 ⁻³	10	Using a pair of compasses, a ruler and a pencil only, construct an angle of 105°

11	A tortoise at reptiles village has lived for 2490 years, Express the tortoise's age in Roman numerals.	12	Set Q has 63 proper subsets. Determine its number of elements.
13	Five sets cost sh. 20,000 How many similar sets can one buy with sh.36,000 at the same rate?	14	Simplify: $\frac{3k + 2}{4} - \frac{k + 1}{3}$
15	Calculate (33.4 x 9) –(9 x 3.4)using distributive property.	16	Three porters can build the house in 6days. How many more porters will be needed to build the same house in 2 days working at the same rate?

17	It is 8:00a.m now. What time of the day will it be after 68hours?	18	Electric poles were fixed on both sides of the road 2km long at intervals of 20m. How many poles were fixed?
19	In a class, there are 13girls and 12 boys. What is the probability of choosing a boy at random to become a prefect?	20	A tourist has Ug sh 82,500 and wants to buy Us dollars from a forex bureau. How many dollars will the tourist get if US \$1= Ugsh 2750?



22 a)	In a village of 450people, $^{3}\!/_{5}$ are males and the rest are
	females. $^{2}\!/_{3}$ of the males are above 18 years and $^{1}\!/_{4}$ of the
	females are below 18years. Find the total number of people below 18 years of age. (3marks)
b	If the number of males increased by 30, in what ratio did it increase? (2marks)
22	1
23 a)	The tank below is $\frac{1}{3}$ full of water.
3)	How many litres of water are in the tank? (2marks)

b	How many litres are needed to fill the tank?	(2marks)
C	Find the water level when the tank is completely full of	water. (1mark)
24a	The scale on a map is 1:9000. If the distance on the m 5cm, what is the actual distance in km? (2marks)	ap is

b	Use the diagram below to answer the questions that for $x - \frac{1}{40^{\circ}} - \frac{1}{$	ollow.
	15° (, , , , , , , , , , , , , , , , , ,	(2marks)
b	Find the direction of: (i) Y from Z	(1mark)
		, , ,
	(ii)Z from X	(1mark)
25a	Solve: 9 - 2p = 3	(2marks)
h	Six years ago, a man was ten times as old as the days	Ihter
2	$_1$ on $_2$ cars ago, a man was cen ames as on as the daug	,

	If da	the sum o aughter?	f their p	resent age	eis 4	45years,	how old	is th (3	e Smarks)
26a	U pa lir	sing a pair arallelogran ne QR = 3.	of comp n PQRS, 8cm.	asses, a r where by	∙uler ⁄ PQ=	and a per = 7.7cm,	ncil only angle PQ	cons PR = (4	truct a 45° and Imarks)
b)	M	easure ang	le PRS					(1	.mark)
27	St th	tudy the fo nat follow.	llowing e	exchange	rate	s and ans	swer the	ques	tions
		Currency	Selling	price (Ug	sh)	Buying p	orice (Ug	sh)	
		Ksh 1	36			35			
		US \$ 1	3600			3560			

		£	1	485	0		48	800			
a)	Ar he	am I geti	nad K	(sh 25	500, hov	w much	mone	ey in	Uganda	a shillin (2	gs did marks)
b)	If ge	Alvin t?	had	240	pound s	terlings,	How	ı mar	ıy US d	ollars d (3	id he 3marks)
28	Th	e eq	uatio	n of a	a line is	x = y - 1 the equ	2 Jatio	n		(4marks)
										C	final KS)
		х			2	-2					
		Y		4			⁻2				

29	The number of right angles of a polygon is 12. Calculate the number of sides of a polygon. (2marks)
b	The sum of interior angles of a regular polygon is 1440° Find the size of each exterior angle. (3marks)
30	The area of the shaded part in the figure below is 42cm ² (4mks) Find the radius of the circle.

31	An exercise book costs sh.330. Walugembe uses 12 be term. How much does walugembe's father spend on h every school year of three terms?	ooks every his books in (3marks)
b	Bernard had a half loaf of bread. He shared it among his 6 visitors. How much did each visitor receive?	(2marks)
32	The sum of three consecutive even numbers is 66, If t number is m, Find the value of m	the middle (2marks)
b)	Find their product.	(2marks)