NAME ADM. No CLASS

TIME: $2\frac{1}{2}HOURS$

SECTION 1: Attempt all the questions in this section (50 Marks)

- 1. Use the number line to perform the following operations.
 - a) (-10) (-3) [2 Marks]
 - b) (+1)-(-8) [2 Marks]
- 2. Evaluate $\left\{ \left(1\frac{1}{4} \frac{3}{8}\right) \div 2\frac{1}{2} + 1\frac{3}{4} \div 1\frac{1}{4} \right\}$ [3 Marks]

3. Three boys shared some money. The youngest got $^1/_{12}$ of it, the next got $^1/_{9}$ and the eldest got the remainder. If the eldest boy got shs. 330, what was the original sum of money? Give your answer to the nearest shilling.

[3 Marks]

4. A matatu travelling at 56 Km/h takes $2\frac{1}{2}$ hours to move from town A to town B. Find the distance between towns A and B. [3 Marks]

5.Solve the following equation $\frac{x+1}{2} + \frac{2x+1}{3} = 9$ [3 Marks]

- 6. A trader sold a wrist watch for sh. 3,150 after giving a 10% discount. Find the marked price of the watch. [3 Marks]
- 7. Divide the line AB below into six equal sections. [3 Marks]

8. (a) Convert $\frac{3}{4}$ into percentage: [2 Marks]

(b) Convert $2.\dot{3}\ 0\dot{4}$ into a fraction. [3 Marks]

9. Write in figures five billion five million five thousand and five.[3 Marks]

10. What fraction does letter K represent in the diagram below? [2 Marks]

K	L	L	L	K
L	K	K	L	W
L	L	L	K	L
L	K	L	L	L

11. State the value of digit 7 after the operations below. 3.45×20.54 [3 Marks]

- 12. Round off the following numbers to the nearest values indicated in the brackets,
 - a) 370 (1000) [1 Mark]
 - b) 2499 (10) [1 Mark]
- 13. A number n is such that when its divided by 3,7,11 or 13, the remainder is always one .Find the least value of the number n. [3 Marks]

14. The size of each interior angle of a regular polygon is seven times the size of the exterior angle. Find the number of sides of the polygon.

[3 Marks]

15. If x=-2, y=-6 and z=4, find the values of 2y-3x+z [3 Marks]

16. A Forex Bureau in Kenya buys and sells foreign currencies as shown below:

	Buying (Kshs)	Selling (Kshs)
Currencies		
Chinese Yuan	12.34	12.38
South African Rand	11.28	11.37

A business woman from china converted 195,250 Chinese Yuan into Kenya Shillings. While in Kenya, the businesswoman spent Kshs 1,258,000 and then converted the balance to South African Rand. Calculate the amount of money, to the nearest Rand, that she received. [4 Marks]

SECTION II: Attempt ALL the questions in this section (50 Marks)

- 17. A bird flies from tree P to another tree Q which is 50m on a bearing of 030° from P. From Q the bird flies 80m due west to another tree R and finally flies due south to another tree S which is on a bearing of 120° from P.
 - (a) Using the scale 1cm to represent 10m, construct an accurate scale drawing showing the positions of P,Q,R, and S. [6 Marks]

- (b) By measurement from your scale drawing determine;(i) The distance in metres and the bearing of P from R. [2 Mark]
 - (ii) The distance in metres and the bearing of S from R. [2 Marks]
- 18. The table below shows recordings in metres of a surveyors' field book.

(a) Using a scale of 1cm to represent 20m construct the diagram to represent the above data. [5 Marks]

- (b) Calculate the area of the above land in:
 - (i) Square metres. [3 Marks]

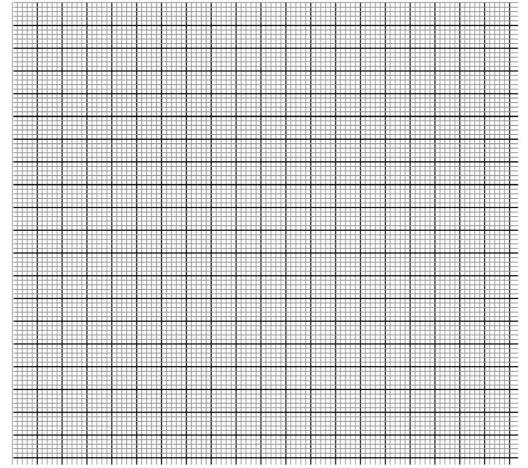
	(ii) Hectares. [2 Marks]			
1 s	00,000.She is a he sold 360 han	s paid a commission lso paid a monthly s dbags at Ksh 500 ea saleswoman's earning	salary of Ksh 12, nch.	000.In a certain	Ksh month,
(b)	Her total earn	month, the saleswomaings that month were amount of money recarks]	Ksh 17,600.Calc	ulate:	
(i)	The number of	nandbags sold that m	onth. [2 Marks]		

00			7		1						7		6.1						
							ir of BC in											= 60°.	
(4)	COIII	361	ucc	CII	angı	LC A	JC 11.	ı WIIJ	I CII		,	CIII,	DC	0	CIII C	arra		Marks]	
(b)	Meas	sur	e:																
	(i) s			. (lmk)														
	/ = = \	,	a CD	/1.	1- \														
	(ii)	_	ACB.	(1)	mK)														
							, bis Marks		ang	le	BAC	to m	neet	lin	e B 0	c at	P. 1	Measure	the
					SOURCE STATE			oroset.											

- 22. The total weekly wages for 12 artisans and 4 apprentices are sh.5600. If the number of artisans is increased to 15 and that of the apprentices to 9, the weekly wages are sh.7800.
 - (a) Write two simultaneous equations to represent the above information.

[2 Marks]

(b) Represent the equations in (a) above on the graph provided. [6 Marks]



- (c) From the graph, determine the amount paid to
 (i) One artisan. [1 Mark]
 - (ii) One apprentice [1 Mark]