

NAME _____ INDEX NUMBER _____

SCHOOL _____ DATE _____

LINEAR EQUATION

<i>KCSE 1989 – 2012 Form 1 Mathematics</i> <i>Answer all the questions</i>		Working space
1.	<p>1989 Q3 P1</p> <p>Three artisans and two craftsmen earn sh. 220 in a day while four artisans and one craftsman earn sh. 185. Find the amount of money a craftsman earns in a day.</p> <p style="text-align: right;">(3 marks)</p>	
2.	<p>1989 Q19 P1</p> <p>A shopkeeper bought 50 <i>pangas</i> and 30 <i>jembes</i> from a wholesaler A for sh. 4260. Had he bought half as many <i>jembes</i> and <i>pangas</i> less, he would have paid sh. 1290 less. Had the shopkeeper bought from wholesaler B, he would have paid 10% more for a <i>panga</i> and 15% less for a <i>jembe</i>.</p> <p>How much would he have saved if he had bought the 50 <i>pangas</i> and the 30 <i>jembes</i> from wholesaler B.</p> <p style="text-align: right;">(8 marks)</p>	
		Working space
3.	<p>1990 Q5 P1</p> <p>The total weekly wages for 12 artisans and 4 apprentices are sh.5600. If the number of artisans is increased to 15</p>	

	<p>their present ages (3 marks)</p>	
7.	<p>1994 Q 3 P1 A shopkeeper sells two types of pangas, type x and type y. Twelve type x pangas and five type y pangas cost sh 1260, while nine type x pangas and fifteen type y pangas cost sh 1620. Mugala bought eighteen type y pangas. How much did he pay for them?</p> <p>(4 marks)</p>	
8.	<p>1996 Q3 P1 The cost of 5 skirts and 3 blouses is Kshs 1750. Mueni bought three of the skirts and one of the blouses for Kshs 850. Find the cost of each item</p> <p>(3 marks)</p>	<p>Working space</p>
9.	<p>1996 Q13 P1 A fruiterer bought 144 pineapples at Kshs 100 for every six pineapples. She sold some of them at Kshs. 72 for</p>	

	<p>every three and the rest at Kshs 60 for every two. If she made a 65% profit, calculate the number of pineapples sold at Kshs 72 for every three (3 marks)</p>	
10.	<p>1996 Q3 P2</p> <p>Four farmers took their goats to the market. Mohammed had two more goats than Ali. Koech had as many goats as Mohammed, whereas Odupoy had 10 goats less than both Mohammed and Koech.</p> <p>(i) Write a simplified expression with one variable, representing the total number of goats. (1 mark)</p> <p>(ii) Three butchers bought all the goats and shared them equally. If each butcher got 17 goats, how many did Odupoy sell to the butchers (3 marks)</p>	<p style="text-align: center;">Working space</p>
11.	<p>1997 Q15 P1</p> <p>Akinyi bought three cups and four spoons for Kshs. 324.</p>	

	<p>Wanjiku bought five cups and Fatuma bought two spoons of the same type as those bought by Akinyi. Wanjiku paid Kshs 228 more than Fatuma. Find the price of each cup and spoon.</p>	
<p>12.</p>	<p>1997 Q2 P2 Mary has 21 coins whose total value is Kshs 72. There are twice as many five shillings coins as there are ten shillings coins. The rest are one shillings coin. Find the number of ten shillings coins that Mary has.</p>	<p>Working space</p>
<p>13.</p>	<p>1998 Q3 P1 The mass of 6 similar books and 4 similar biology books is</p>	

	<p>7.2 kg. The mass of 2 such art books and 3 such biology books is 3.4 kg. Find the mass of one art book and mass of one biology book.</p>	
<p>14.</p>	<p>2000 Q16 P1 Karani bought 4 pencils and 6 biro- pens for Ksh 66 and Tachora bought 2 pencils and 5 biro- pens for Ksh 51. (a) Find the price of each item (b) Musoma spent Ksh. 228 to buy the same type of pencils and biro pens. If the number of biro- pens he bought were 4 more than the number of pencils, find the number of pencils bought.</p>	<p>Working space</p>
<p>15.</p>	<p>2003 Q14 P1 a) Write an expression in terms of x and y for the</p>	

	<p>total value of a two digit number having x as the tens digit and y as the units digit.</p> <p>b) The number in (a) above is such that three times the sum of its digits is less than the value of the number by 8. When the digits are reversed the value of the number increases by 9. Find the number.</p>	
16.	<p>2006 Q14 P1</p> <p>Hadija and Kagendo bought the same types of pens and exercise books from the same shop</p> <p>Hadija bought 2 pens and 3 exercise books for Kshs 78.</p> <p>Kagendo bought pens and 4 exercise books for Ksh 108</p> <p>Calculate the cost of each item (3 marks)</p>	<p>Working space</p>
17.	<p>2007 Q11 P1</p> <p>In fourteen years time, a mother will be twice as old as</p>	

	<p>her son. Four years ago, the sum of their ages was 30 years. Find how old the mother was, when the son was born. (4 marks)</p>	
18.	<p>2011 Q13 P1 In January, Mambo donated $\frac{1}{6}$ th of his salary to a children's home while Simba donated $\frac{1}{5}$ th of his salary to the same children's home. Their total donation for January was Ksh 14820. In February, Mambo donated $\frac{1}{8}$ th of his salary to the children's home while Simba donated $\frac{1}{12}$ th of his salary to the children's home. Their total donation for February was Ksh 8675. Calculate Mambos monthly salary.</p> <p>(4 marks)</p>	