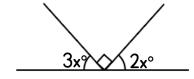
MATHEMATICS PLE 2013

CANDIDATE'S INFORMATION						
Index number :						
Name :						
Signature :						
School name :						
District name:						
<u>SECTION A</u>	<u>: 40 MARKS</u>					
Workout: 22 × 4	What number has been expanded below? 20,000 + 600 + 8					
3 Write XCIX in Hindu-Arabic numerals.	4 Given that set P = {1,3,5,7,9} and set Q = {2,3,5,7}					
5 Round off 12,962 to the nearest	6 Find the value of x in the diagram					

thousands.

below.



7	A pupil got a dozen of exercise books for shs. 6,000. He later sold each book at shs. 700. Calculate his profit.	8	Simplify: 4t - 2k + 5k - t
9	Divide 6363 by 7	Ю	Workout: $\frac{2}{3} + \frac{1}{4}$
=	What morning time is shown on the clock face below?	12	Simplify: ⁺ 4 — ⁺ 6
13	In a class, the ratio of girls to boys is 3:2. If there are 18 girls, how many pupils are in class?	Ψ.	Using a ruler, a pencil and pair of compasses only, bisect the angle given below.

15	Workout: 2 — 6 (mo	d 7)	I	6	Given th		$\frac{1}{3}$ and $b =$	$\frac{1}{9}$. Find
17	The Lowest Common (LCM) of two number their Greatest Common (GCF) is 6. If one of is 24. Find the second	ers is 72 mon Facto f the num	and or bers	8	packed	າ	f sugar to ckets. Hov et?	
I9	Trees were planted were planted 5 metr	_	_					_
20	The bar graph show	s the num	ber of e	ggs	s laid by	chicken i	n Opio's f	arm
	from Monday to Fri	day. Stud	y and use	e it	to com	plete the	table.	
		50						
		40						
		8g 30						
		4						
		Number of eggs laid.						
		2 10 Mon.	Tue.	W	ed. Thur	. Fri.		
		141011.			ne week	,		•
	Days of the week	Mon.	Tue.		Wed.	Thur.	Fri.	
	No. of eggs laid	25	45			50		

SECTION B: 60 MARKS

21 Musamali bought the items in the table below from a shop.

a. Complete the table.

Item	Price	Amount	
bars of soap	Shs. 2,200 per bar	Shs. 6,600	
2 loaves of bread	Shs per loaf	Shs. 3,400	
$2\frac{1}{2}$ kg of salt	Shs. 800 per kg	Shs	
TOTAL E	Shs		

b. If Musamali paid shs. 10,800, what percentage discount was given?

22 a. Express 0.406 in standard form.

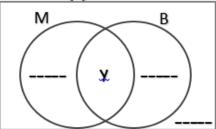
b. Write 72 as a product of its prime factors.

In a village of 49 farmers, 20 grow millet (M), 25 grow beans (B) and y grow both millet and beans. 3y farmers grow neither of the two food crops.

a. Use the information given above to complete.



b. Find the value of y.



a. How many farmers grow neither millet nor beans?

24	Pupils did a test and scored marks as shown in the table below.						
		Marks	50	k	45	80	
		Number of pupils	2	6	3	4	
	a Hov	v many pupils did th	e test?				
	u . 110 v	w many papile aid m	C 1001.				
	b. Find the value of k if the mean mark was 61.						
	2				- ··		
	c. Wh	at was the range of	f the mark	ks?			
25	a. Solve t	he inequality: $9 \le -3$	3(y – I)				
	b. State the first two values of the solution set for the inequality.						
26	a A wata	ch loses 5 seconds ev	very one L	our How	many min	utec will :4	t loso in
20	two days		rei y one n	oui . i iow	many min	GIES WIII II	1 1096 111
	,						
	b. Express 5m/sec in km/hr						
1							

27	The pictograph represents the number of patients who were admitted in a					
	hospital on a certain day. Study and use it to answer questions that follow.					
	Men's ward	777				
	Children's ward	AAAA	Note: rep. 10 patients.			
	Women's ward	9999				

Maternity ward

- a. How many patients were admitted in the hospital on that day?
- b. Find the ratio of patients in the women's ward to those in the children's ward in its simplest form.

c. Express the number of patients in the men's ward as a percentage of the total number of patients.

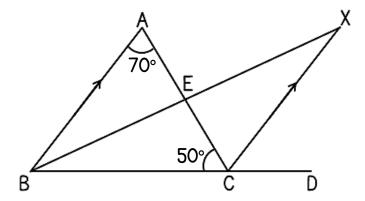
28 A tank was $\frac{2}{3}$ full of water. When $\frac{1}{4}$ of the water in the tank was drawn, 2,500 litres remained. Find the capacity of the tank when full.

- 29 Opoka rides a distance of 2.97km from his home to school on a bicycle.

 The wheel of the bicycle has a diameter of 63cm.
 - a. How many revolutions does the wheel make to cover the distance? $\left(use \ \pi = \frac{22}{7}\right)$

b. If Opoka makes 50 revolutions in one minute, how long does he take to reach the school?

30 In the figure below, BCD is a straight line. Line BX bisects angle ABC. Line AB is parallel to line XC. Angle BCE = 50° and angle BAC = 70°.

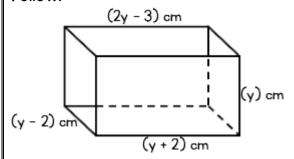


Find the sizes of angles;

a. CEX

b. DCX

31 The figure below is a cuboid. Study and use it to answer the questions that follow.



a. Find the value of y.

b. Find the volume of the cuboid.

- A tourist left town A and travelled 55km westwards to town B. He then turned on a bearing of 215° and travelled to town C which is a distance of 65km.
 - a. Draw a sketch diagram to show the tourist's journey.

b. Using a scale of lcm to represent lOkm, draw an accurate diagram to show the tourist's journey.

c. Find the shortest distance from town C to A in km.