<u>MA</u> 1	THEMATICS PLE 2018
 	CANDIDATE'S INFORMATION
I Index number	
Name	:
Signature	:
I School name	:
I District name	

SECTION A: 40 MARKS Questions I to 20 carry 2 marks each

	Workout: 36 ÷ 3	2	Write in figures: Nine thousand, thirty six
3	Given that P = {a, b, c, d, e, f, g} and Q = {b, a, f, e, h}. Find n(PUQ)	4	A teacher counted pupils without school uniform in a class and tallied them as follows: HH HH HH HH IIII How many pupils were without school uniform?
5	The clock face below shows time in the afternoon. Write the time shown in 24-hour clock.	6	Simplify: $5k - 2(3 - k)$

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

7	A car uses 7 litres of petrol to cover 28 kilometres. How many litres of petrol can it use to cover 64 kilometres?	8	Okia bought 4 packets of washing powder each weighing 750 grams. Find the weight of the washing powder Okia bought in Kilograms.
q	Use a protractor to measure the size of angle KLM below. K L M Angle KLM =	O	Find the next number in the sequence: I, 2, 10, 37,
	Workout: (49 x 39) + (61 x 49)	12	Round off 796 to the nearest tens.
13	Workout: -5 + ⁺ 2 on the number line below. <u>++ ++ ++ ++ ++ ++ ++ ++ +++ ++++++++++</u>	14	Martha drove from town A to town B at a speed of 72km per hour. Town A is 90km away from town B. Calculate the time she took to reach town B.

15	The following heights of six children were recorded at a health centre: 53cm, 64cm, 59cm, 51cm, 63cm and 61cm. Find the median height of the children.	16	Given that I US dollar (\$) costs Uganda shillings (Ug.sh) 3,672 and I Kenya shilling (K.sh) costs Ug.sh 36, find the cost of I US dollar in Kenya shillings.
17	Find the value of p in degrees in the diagram below. 3p 5p 4p	18	The taxi fare from Kampala to Mukono was raised by $16\frac{2}{3}$ %. The old fare was sh.3,000. Find the new fare taxi fare.
19	Solve the inequality: $3 - 2m < 15$	20	Bottles of 300 millilitres (ml) were used to fill a nine litre bucket with water. Find the number of full 300ml bottles that were used.
	<u>SECTION E</u>	8: 60	<u>D MARKS</u>
21	At a party, guests were served with shown in the Venn diagram below. So that follow. E () () () () () () () () () () () () ()	h so tudy [f 3: (i). f	da (S) and mineral water (W) as and use it to answer the questions 2 guests were served with soda, and the value of r
	(ii). find the total number of gu	este	s who attended the party.

	b. Find the probability that a guest picked at random did not take any drink.
22	a. Express $\frac{4}{15}$ as a recurring decimal.
	b. Simplify: $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{14} + 2\frac{7}{15}$
23	a. Write the place value of 2 and 1 in 201+1
	b. Workout: 42 _{five} x 21 _{five}
24	The sum of the lengths of all the edges of the prism below is 96cm.
	a. Find the length of edge L
	b. Calculate the volume of the prism.

25	Study and complete Mukasa's shopping table below:					
	Item	Quantity	Unit cost	Amount		
	Sugar	3kg	sh per kg	sh. 14,400		
	Rice	kg	sh. 5,000 per kg	sh. 2,500		
	Milk	250 ml	sh. 3,000 per litre	sh		
	Biscuits	2 packets	sh per packet	sh		
		Total exp	enditure	sh. 29,650		
26	a. Using a po whose diago	ir of compasse nals are 14cm a	s and a ruler only, constrund lOcm.	uct a rhombus UVXY		
	b. Measure 1	the length VX	cm			
27	The average group, the a the fifth bo	e weight of fou verage weight l y. Find the weig	r boys is 56kg. When two becomes 52kg. The sixth b ht of the sixth boy.	other boys join the oy is 8kg heavier than		





	MATHEMAT	`I(CS PLE 2017				
ļ	CANDIDATE'S INFORMATION						
i	Index number :						
i	Name :						
ļ	Signature :						
i	School name :						
i	District name :						
-		<u>: 40</u>	<u>D MĀRKS</u>				
	Workout: 32×3	2	Write 650,019 in words.				
3	Workout: 2 - 5 (finite 7)	4	Find the next number in the				
			sequence:				
			-11 , -8 , -5 , -2 ,				
5	Solve the equation: $7n + 2 = 23$	6	Given that set N = {c , t , p}, list all the subsets in N.				

7	Find the number which has been expanded below: (3 × 10 ²) + (5 × 10 ⁻¹)	8	The profit on a shirt sold at sh 7,900 was sh 2,100. Calculate the cost price of the shirt.
q	Change 10 square metres into square centimetres.	Ю	Write 9:30a.m in the 24 hour clock.
	Workout: $1\frac{1}{2} - \frac{2}{3}$	12	Find the value of the digit in the ten thousands place in the number 850634.

13	A box contains 20 pens. 10 are blue, 7 are red and the rest black. A pen is picked at random from the box. Find the probability that it is a black pen.	14	The diagram below shows the positions of two towns L and M. Use it to answer the questions that follow. L 77° M Workout the bearing of town L from town M
15	Using a pair of compasses, a ruler and a pencil only, construct an angle of 150° in the space below.	16	Given that $a = 3$ and $b = -2$, find the value of $a^2 - b^3$
17	Sixty six poles are fixed in a straight line along one side of a road. The poles are fixed at intervals of 10 metres. Calculate the length of the road.	18	A house can be built by 3 men in 20 days. How many men working at the same rate can build the same house in 12 days?



22	Akot went to the market and bought the following items:
	3 litres of milk at sh. 2,400 per litre
	250g of salt at sh. 2,000 per kg
	18 oranges at sh. 1,500 for every 6 oranges.
	a. Calculate the total cost of the items.
	b. Akot paid sh 12,000 for the items. What discount was she given?
22	
23	In a class, 32 pupils play tootball (F) only, g play both volleyball (V) and football $(2a - 10)$ play volleyball but not football while $(a - 2)$ play
	neither of the two games.
	a. Complete the Venn diagram below using the above information.
	3
	b. Given that 62 pupils play one game only, find the value of g
	c. Calculate the number of pupils in the class.



27	Arafat deposited money in a bank which offers a simple interest rate of
	$2\frac{1}{2}\%$ per year. After 9 months, his account had an amount of sh. 163,000.
	2 Calculate the money Arafat deposited in the bank.
28	a. Using a ruler, a pencil and a pair of compasses only, construct a
	quadrilateral ABCD where line AB = /cm, angle ABC = BAD = 60° and AD = $RC = 35$ cm
	DC - 0.0cm.
	b. Measure the length DC cm



31	In a class, $\frac{1}{5}$ of the girls are borders while $\frac{1}{2}$ of the boys are day scholars.
	The percentage of the girls in the class is 60%. The class has 10 boys who
	are day scholars.
	a. How many pupils are in the class?
	b. Find the number of girls who are borders.
32	Study the coordinate graph below and use it to answer the questions that
	5
	2
	-5 -4 -3 -2 -1 0 1 2 3 4 5 × - a×is
	-2
	<u> </u>
	\checkmark
	a. Write the coordinates of point A.
	b. Plot the points B(⁺ 2, ⁺ 2) and C(⁻ 1, ⁻ 4) on the graph.
	c. Join points A to B and B to C.
	d. Locate a point D on the graph, join it to A and C such that ABCD is a
	kite.

L

	MATHEMATICS PLE 2016					
	CANDIDATE'S INFORMATION					
i	Index number :					
i	Name :					
i	Signature :					
Ì	School name :					
I	District name :					
	<u></u> <u>SECTION A</u>	<u>: 40</u>	<u>D MĀRKS</u>			
Ι	Workout: 23 + 42	2	Simplify: 3a + a — 2a			
3	Workout: $\frac{5}{9} \div \frac{2}{3}$	4	Use the Venn diagram below to find $n(P \cap Q)^{2}$.			
5	Without dividing, show which of the numbers 140 and 5070 is divisible by 3.	6	Workout: 110 _{two} × 11 _{two}			

7	A dice is tossed once. What is the probability that a number less than 5 will appear on top?	8	Write the integers represented by letters a and b on the number line below. -5 -4 -3 -2 -1 0 1 2 3 4 5 b i
			a = b =
9	Show the time <i>"twenty five minutes to eleven"</i> on the clock face below.	Ю	In the triangle below, find the value of d in degrees.
1	The area of a square flower garden is 196cm ² . Find the length of each side.	12	Convert $12\frac{1}{2}\%$ to fraction in its lowest form.

13	The prime factors of 12 and 90 are given below; 12 = 2 ² x 3 90 = 2 x 3 ² x 5 Use the given prime factors above to find the Lowest Common Multiple (LCM) of 12 and 90	14	A wire of length 161 metres was shared by some boys. The average length of the wire each boy got was 23 metres. Find the number of boys who shared the wire.
15	Find the length of the arc DK in the diagram below. ($use \pi = \frac{22}{7}$) 63cm K	16	Apio bought 30 books at sh. 3,000 per dozen. How much money did she spend?
17	A motorist travels 64 kilometres in 40 minutes. Find the speed of the motorist in kilometres per hour.	18	The area of the shaded part of the cuboid below is l2cm ² . Calculate the volume of the cuboid. 7cm

Iq	Using a ruler, a pencil and a pair of	20	Hakim is three times as old as
	compasses only, construct an angle		Lucky. Their total age is 52 years.
	of 135° in the space below.		How old is Lucky?

SECTION B: 60 MARKS

21			
21	In a class of 91 pupils, 30 play football (F), f play netball (N), 5 play both		
	football and netball and 3 pupils do not play any of the two games.		
	a. Use the above information to complete the Venn diagram below.		
	b. Find the value of t.		
22			
22	a. Write 955 in Koman numerals.		
	b. Find the product of the value of 2 and the value of 8 in the number 4820.		

23	a Simplify: $\frac{0.12 \times 5.4}{1000}$
	0.03×0.6
	b. Express the recurring decimal 0.0-0-1-2 as a common traction.
าบ	The evolution nation in a bank and so follows
27	The exchange rates in a bank are as follows.
	LUS Dollars (\$) = Ua. sh. 3.400
	I British Pound Sterling $(t) = Ug. sh. 4,600$
	l Kenva shillina (K.sh.) = Ua.sh. 35
	a Convert Ua sh 1.840.000 to British Pound Sterling
	b. If a set of chairs costs \$700, find the equivalent cost of the chairs
	in Kenya shillings.



A taxi driver left town A for town B at 10:30a.m driving at a speed of 80
kilometres per hour. The driver reached town B at 2:00p.m.
a. Calculate the time taken by the driver to reach town B.
b. Find the distance between town A and town B.
Hajati bought 120 shares from a village SACCO at a simple interest rate of
50% per year. Each share costs sh. 5,000.
a. Find her total interest after $3\frac{1}{2}$ years.
b. Calculate the total amount of money Hajati has in the SACCO.

29	The Pie chart below shows how pupils of Mpaata Primary School are distributed in various clubs in the school. Use it to answer the questions that follow.
	Wildlife Debating
	2p° 54°
	Music Dance and Drama
	a. If there are 216 pupils in the debating club, find the total number of pupils in the school.
	b. Express the number ot pupils in the debating club as a percentage ot the whole school.
30	A cylindrical tank of diameter 70cm contains water to a height of 100cm. Find in litres the amount of water the tank contains. (<i>use</i> $\pi = \frac{22}{2}$)

31	a Given that $m = 3k$ and $k = 5$ find the value of $2k + 6m$
0.	
	b. Write the solution set for the inequality: $6 < x < 10$
32	A school library is 70 metres east of the main hall. The staffroom is 60
	metres from the library on a bearing of 240°.
	a Using a scale of Icm represent 10metres, show the three places on an
	a. Using a scale of icm represent iometries, show the three places on an
	accurate diagram.
	b. Find the shortest distance between the main hall and the staffroom

	MATHEMATICS PLE 2015						
	CANDIDATE'S INFORMATION						
I	Index number :						
I	Name :						
I	Signature :						
I	School name :						
i	District name :						
-	<u></u> <u>SECTION A</u>	<u>. 40</u>	<u>D MĀRKS</u>				
3	Workout: 124 — 45 Simplify: 18x — 5(3x + 7)	2	Write in figures: Eighty thousand, ten Given that set K = {g, m, v, z}, find the number of subsets in set K.				
5	Workout -7 — -3 on the number line below. < 	6	Find the sum of the 5 th and the 8 th prime numbers.				

7	Workout: $\frac{14}{15} \div \frac{2}{5}$	8	A birthday party started at 4:30pm and lasted $2\frac{3}{4}$ hours. At what time did the party end?
q	Show all the lines of folding symmetry in the figure below.	Ю	A trader sold a pair of shoes at sh. 32,800 making a profit of sh. 1,200. What was the cost price of the pair of shoes?
II	In a car park, there are 192 cars. The probability that a car picked at random from the park is made in Japan is $\frac{5}{8}$. How many cars are not made in Japan?	12	How many packets of 200 grams can be got from 2.6 kilograms of salt?
13	Given that a = -2, b = 3 and c = 4, find the value of b(a ² + c)	14	Workout: O _{two} + _{two}

15	Find the size of angle v in the	16	The Venn diagram below shows the
	figure below		prime factors of 12 and 18. Use it to
			answer the question that follows
	y° 130°		Find the Lowest Common Multiple of 12 and 18.
17	Find the median of the numbers:	18	Gidudu has goats and sheep in the
	8 , 10 , 4 , 1 , 6 and 9		ratio of 3 : 2. If he has 24 goats,
			how many sheep does he have?
Iq	3	20	The a neultru: farm, equal work
••	A bucket was $-\frac{1}{4}$ full of water.	20	packed into boxes which hold 144
	When 4 litres were removed, it 1		eggs each. How many boxes of the
	became $\frac{1}{2}$ full of water. What is		same size are needed to pack 1,008
	the capacity of the bucket?		eggs?

SECTION B: 60 MARKS

21	In a class, 31 pupils play tennis (T) and $(d + 5)$ play volleyball (V) only. d				
	pupils play both games while 3 play neither of the games.				
	a. Use the above information to complete the Venn diagram below.				
	$\mathcal{E} =$				
			b. If 27 pupils	play volleyball alto	gether,
	V		find the val	ue of d.	
	(a +	. o(d))			
		\bigcirc —	_		
22	a. What r	umber has been ex	panded below?		
	$(6 \times 10^3) + (2 \times 10^1) + (7 \times 10^0) + (3 \times 10^{-2})$				
	b. Worko	ut: (8.5 x I4) + (8.5	x 16)		
23	The table	below shows the re	ate at which differe	ent currencies were	e sold and
	bought in	a commercial bank	during the month of	² September. Use it	to
	answer q	uestions that follow	Ι.		
		Currency	Buying in Ug. Shs	Selling in Ug. Shs	
		l US dollar (\$)	3,600	3,650	
		l Euro €	4,000	4,020	
		l Rwandan franc	4.0	5.0	
	a. Hov	y many Euros did M	usa aet for Ua. Shs	603,000?	
	<u> </u>				
	b. Am	ina came from Rwa	nda with 109.500 Rv	vandan Francs and	
	exchanged them for US dollars. How many US dollars did she get from			et from	
	the bank?				



MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

27	The table below shows how a motor cyclist travelled from town R through					
	towns Q and S to town P. Study and use it to answer questions that follow.					
		Town	Arrival	Departure		
		R		9:00a.m		
		Q	9:30a.m	9:42a.m		
	Γ	S	10:35a.m	ll:10a.m		
	l l	Р	l:30p.m			
	a. How long did the motorcyclist stay at town S?					
	b. Find the time the motor cyclist took to travel from town R to town P					
	c. If the distance from town R to town P is 180km, calculate the average speed of the motor cyclist for the whole journey.					
28	³ Madada sold his radio to Aguti at sh. 63,000 making a loss of 10%. Aguti					
	later sold the radio to Chebet at a profit of 15%.					
	a. Calculate the amount of money Madada paid for the radio.					
	b. For how m	uch money did	Aguti sell the r	radio?		



31	A geometry set costs a half as much as a book. A book costs sh.600 more than a fountain pen. If the total cost of the three items is sh.6,900. Find the cost of a geometry set.
32	A plane flew from airport K to airport T on a bearing of 120°. The distance between K and T is 600km. It then left airport T for airport R on a bearing of 210°. The distance between T and R is 500km. a. Sketch the journey made by the plane.
	b. Using a scale of Icm to represent 100km, draw an accurate diagram to show the journey made by the plane.
	c. Find the bearing of airport R from airport K.

	MATHEMATICS PLE 2014				
	CANDIDATE Index number : Name : Signature : School name :	:'S I			
Ľ		4 0	 MĀRKS		
I 3	Workout: 14 + 53 Given that K = {1, 2, 3, 4, 5} and M = {2, 4, 6, 8} Find n(KLUM)	2	Write 99,040 in words. Workout: $\frac{1}{6} \times \frac{3}{4}$		
	IVI = {2, 1, 0, 0}. Find n(KOIVI).				
5	Simplify: 5ab – 2xy – ab + 7xy	6	Find the next number in the sequence: 49 , 47 , 44 , 39 ,		

7	Using a protractor, draw an angle of 55° in the space below.	8	A lady bought a dress at sh. 55,000. She later sold it and made a loss of sh. 15,000. At what price did she sell the dress?
q	The mass of a packet of coffee is $\frac{1}{8}$ kg. What is this mass in grams?	ΙΟ	Workout: 4 2 _{five} — 3 _{five}
	Given that n = 3 and r = -2, evaluate $\frac{2n+r}{r}$	12	Today Monday, the workers on the farm are paid their salary. What day of the week will the workers' next pay be 30 days from today.
13	Write the number whose scientific notation is 9.85 \times 10 3	14	A cyclist covers 70km in $2\frac{1}{2}$ hours. How long will he take to cover 21km at the same speed?

15	Find the bearing of point Q from	16	A man got a loan of shs. 120,000
	point P in the figure below.		from a Savings and Credit
	N		Cooperative Society at a simple
	I •		interest rate of 8% per annum. He
			paid an interest of shs 7.200 on
	P		the loan. How long was the loan?
	N		
	√25°		
	Q		
17	Solve: $2^{3n} \div 2^n = 2^4$	18	The time on the I2-hour clock is: a
			quarter to 4 o'clock in the
			afternoon. Express this time in the
			24-hour clock.
РI	The pie chart below shows how a fa	rmer	uses her land. Use it to answer
	questions that follow.		
	Calculate the size of her land if she uses 72		
	grazing acres for cultivation.		
	settlement		
	(150°		
	\ / ^{120°} /		
	cultivation		


b. Find the sum of the values of 3 and 7 in the number 3,678.



24	The diagram below shows a rhombus PQRS. The diagonals PR = 24cm and					
	QS = IOcm.					
	s R a. Calculate the area of the rhombus. P Q					
	b. Find the perimeter of the rhombus.					
25	a Workout: $\frac{3.9 + 3.6}{1 + 2^{-1} \times 2^{-1}}$ b. Simplify: $3^{-1} \div 2^{-1} \times 2^{-1}$					
	d. workout. $\frac{1}{0.06 \times 0.6}$					
26	Apio bought the following items from a market.					
	\angle Kg ot rice at shs. 3,200 per Kg.					
	$1\frac{1}{2}$ kg of meat at shs. 8,000 per kg.					
	500g of salt at shs. 1,400 per kg.					
	A sacket of cooking oil at shs. 1,/5U. How much monou did she aread alterather?					
	now much money all she spend allogether?					

27	The timetable below shows how a pupil spent one Saturday. Use it to answer					
	questions that follow.					
		Time	Activity			
		7:00am - 10:30am	digging			
		10:45am - 12:45pm	washing			
		1:00pm - 2:45pm	lunch and resting			
		3:00pm - 4:30pm	playing			
		5:00pm - 7:30pm	reading			
	a. How long did he take playing? b. If he dug his maize garden at a rate of 2 rows in every 30 minutes, find the number of rows he dug that day.					
28	The exchange rat the United States Ksh I = Ug.sh 30 US\$ I = Ug.sh 2,58 a. How many shillings? b. If the cost would this	te for Kenya shillings (l s Dollars (US\$) to Ugar 30 United States dollars v t of a new bicycle is 90 be in Uganda Shillings?	Ksh.) to Uganda shilli nda shillings are show vill one get from 21,5) United States dolla	ngs (Ush.) and in below. 300 Kenya rs, How much		

29	At a Kampala bus park, buses traveling to Arua and Mbarara leave after every 40 minutes and 50 minutes respectively. The first buses to the two towns leave together at 6:00am. At what time will the two buses leave Kampala together again?
30	a. The mean of the numbers 7 , 9 , 5 , x + 2 and 6 is 8. Find the value of x.
	b. In a bag there are 15 pens. Out of these, 4 are red and the rest are blue. What is the probability that a pen picked at random from the bag is blue?
31	Nanziri has two children, a son and a daughter. If the son is half her age, the daughter a third her age and the total age of the two children is 30
	years.
	a. Find Nanziri's age. b. How old is the daughter?

32	A school wants to fence a circular flower garden of diameter 14cm using				
	nolos plasod at intervals of 80cm				
	poies placed at intervals of occinit				
	a. How many poles are needed to fence the flower garden? (use $\pi = \frac{22}{7}$)				
	b. If each pole costs shs. 3,000, how much money will the school spend				
	on the poles?				

MATHEMATICS PLE 2013								
	CANDIDATE'S INFORMATION							
Index num	ber :]	
Name	Name :							
I Signature	:							
School nan	ne :							
District no	ıme :							
·	<u>Se</u>		<u> A: 4(</u>	<u>5 MĀI</u>	RKS			
I Workout: 2 3 Write XCIX numerals.	2 × 4 in Hindu-Aro	abic	2	What below Given and se	numbe ? 20,0 that se et Q ={	r has b 00 + 6 ∍t P ={I 2 , 3 , 5	een expanded 500 + 8 , 3 , 5 , 7 , 9} 5 , 7}	
5 Round off I thousands.	2,962 to the	e nearest	6	Find t below	he valu	e of x i	n the diagram	

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
q	Divide 6363 by 7	10	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?	IH I	Using a ruler, a pencil and pair of compasses only, bisect the angle given below.

15	Workout: 2 - 6 (mo	d 7)		16	Given th the valu	hat $a = \frac{1}{3}$ we of $\frac{a}{b}$	and b =	$\frac{1}{9}$. Find
						b		
17	The Lowest Commor	n Multiple		18	Medi ha	ıs 30kg of	f suaar to	be
	(LCM) of two number	ers is 72 o	and		packed	in —ka pa	ckets Hov	w many
	their Greatest Comm	mon Facto	or I		packets	will he as	et?	, many
	is 24. Find the second	The num d number.	bers			5		
- Iq	Trees were planted	alona a st	raight r		d 305 m	etres long	Tf the t	rees
	were planted 5 metr	res apart,	how ma	any	trees w	vere plant	ed along t	the road?
20	The bar graph shows	s the num	ber of e	egg	s laid by	chicken ir	n Opio's f	arm
	Trom Monday to Frid	aay. Stuay	y ana us				Taple.	
		50						
		- <u>ġ</u> 40						
		<u>ຮ</u> ີ້ 30						
		ت 20						
		Numb.						
		0 Mon.	Tue.	• • •	ed. Thur	. Fri.		
	Days of the week	Mon.	Tue.	or T	Wed.	Thur.	Fri.	
	No. of eggs laid	25	45			50		

21	Musamali bought the items in the table below from a shop.					
	a. Co	mplete 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	XPENDITURE	Shs		
	b. If	Musamali paid shs. 10,8	800, what percentage disc	ount was given?		
22	a. Ex	press 0.406 in standar	d form.			
	ь w	rite 72 as a product o	f its prime factors			
	b. Write 72 us a product of its prime ractors.					
23	In a village of 49 farmers, 20 grow millet (M), 25 grow beans (B) and y					
	grow	v both millet and beans. s	Sy tarmers grow neither	• of the two food		
	a. Use the information given above to complete.					
	$n(\varepsilon) = 49$ b. Find the value of y.					
	M B					
	((x))					
	ц а.	How many farmers g	 row neither millet nor bec	ns?		

24	H Pupils did a test and scored marks as shown in the table below.						
		Marks	50	k	45	80	
		Number of pupils	2	6	3	Ч	
	a Hov	y many pupils did the	test?				
	b. Find	d the value of k if th	e mean m	ark was 6	51.		
	a \//h	at was the papas of	the ment				
	C. Wh	ar was the range of	me mark	.8 :			
25	a. Solve tl	ne inequality: 9 \leq -3	(y – I)				
	h State t	be first two values (of the sol	ution set	for the in	equality	
	b. State the first two values of the solution set for the inequality.						
26	a. A watc	h loses 5 seconds ev	ery one h	our. How	many min	utes will it	lose in
	two days	?	·		·		
	b. Express	s 5m/sec in km/hr					

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.

hospital on a certain day. Study and use it to answer questions that follow.				
Men's ward	<u> </u>			
Children's ward	1111	Note: X rep. 10 patients.		
Women's ward	<u>ÅÅÅ</u>			
Maternity ward	<u>1</u> 1			
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.



31	The figure below is a cuboid. Study and use it to answer the questions that
	follow.
	(y - 2) cm (y - 2) cm (y + 2) cm b. Find the volume of the cuboid.
32	A Tourist left town A and travelled JJkm westwards to town B. He then
	Turnea on a pearing of 213° and travelled to town 6 which is a distance of 65km
	a Draw a sketch diagram to show the tourist's journey
	b. Using a scale of Icm to represent 10km, draw an accurate diaaram to
	show the tourist's journey.
	c. Find the shortest distance from town C to A in km.

	MATHEMATICS PLE 2012							
ľ	CANDIDATE'S INFORMATION							
i	Index number :							
i	Name :							
I	Signature :							
ļ	School name :							
I	District name :							
-	<u>SECTION A</u>	<u>.: 4(</u>	<u>D MĀRKS</u>					
3	Workout: 87 — 65 Simplify: -6 — -4	2	Write in words: 55,001 Solve: $\frac{2}{5}$ m = 4					
5	Given that set Q = {all prime numbers less than 10}. Find n(Q).	6	Workout: $3\frac{3}{4} \div 1\frac{1}{2}$					

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

7	In the diagram below, find the value of k. PQ RS	8	Find the value of: 24 + 30
q	A debate which took $1\frac{1}{4}$ hours ended at 4:10p.m. At what time did it start?	Ю	Find the Greatest Common Factor (GCF) of 18 and 24.
	Using a pair of compasses, a ruler and a pencil only, construct an angle of 120° in the space provided below.	12	Write 0.08 as a fraction in its simplest form.

13	The perimeter of the rectangle below is 36m. Find its width if its length is l2m.	H	Workout: 2 6 8 × 2 5
15	Given that k = 2 and p = -3, find the value of 3k + 2p	16	A gate keeper's salary was increased from sh. 50,000 to sh. 60,000. Find the percentage increase.
17	The table below shows the goals scored by some teams in the netball competition. Use it to answer question 17. Goals 25 20 15 12 30 10 Teams 2 1 3 4 3 5 How many teams scored less than 20 goals?	18	Find the square root of $3\frac{1}{16}$
Р	The number of subsets in set A is 16. How many elements are in set A?	20	A bus covered a distance of 280km in 3 hours and 30 minutes. What was its average speed?

In a class of 60 pupils, 30 like English (E), y like mathematics (M) only, 10 21 like both subjects and 5 do not like any of the two subjects. a. Use the information given above to complete the Venn diagram below. $n(\varepsilon) = 60$ b. Find the value of y. M 10 5 a. How many pupils like Mathematics altogether? a. Using a ruler, a pair of compasses and a pencil only, construct a triangle 22 ABC where line AB = 6.4cm, angle CAB = 60° and angle ABC = 75° . b. Measure the length BC.

23	Asiimwe bought the following items from a shop.		
	3 bo	irs of soap at sh. 1,200 per bar.	
	$1\frac{1}{2}$	kg of sugar at sh. 3,000 per kg.	
	$\frac{1}{2}$ kg	of salt at sh. 1,000 per kg.	
	a. What was his tota	expenditure?	
	b. If he had sh. 10,00	0, how much money did he remain with?	
211			
24	a. Joan used 2156cm ³	s /cm contains 3080 cm° of cooking oil. of the cookina oil. What is the height of the	
	cooking oil remainir	g in the tin? $(use \pi = \frac{22}{7})$	
	b. Joan poured the remaining cooking oil into a rectangular tin with base		
	area //cm². What	was the height of the oil in the tin?	
25	a. Solve: I4p + 4 = 11	b. Solve the inequality:	
		3x + 4 > x + 8	

26	a. The interior anale of a regular polygon is 36° more than its exterior anale.
	What is the size of each exterior angle?
	what is the size of each exterior angle:
	b. In the figure below, DE is parallel to FG, angle ODE = 127° and angle OFG =
	136° Calculate the size of angle x
	iou : calculate the size of angle x.
	/ 127
	$0 \wedge \mathbf{v}^{\circ}$
	° ∕^
	1360
	Apo
	F G
27	
~ /	In Jumbo primary school, $\frac{1}{4}$ of the pupils in P./ like science, $\frac{1}{3}$ of the
	remainder like Mathematics. The rest of the pupils like English. If those who
	like English and 22 find the total number of numils in D7
	like English are 33, tina the total number of pupils in F.7.
28	a. Change 13 _{ten} to base two.
	b Find the number which has been expanded below
	(E + 105), $(H + 103)$, $(H + 100)$
	(3 x IU²) + (4 x IU²) + (4 x IU²)





	MATHEMATICS PLE 2011					
ŗ	CANDIDATE'S INFORMATION					
I	Index number :					
i	Name :					
I	Signature :					
i	School name :					
i	District name :					
	<u></u> <u>SECTION A</u>	<u>: 40</u>	<u> MĀRKS</u>			
1 3	Work out: 3 2 <u>x 3</u> Simplify: 6a - 4a + a	2	Write in figures: thirty eight thousand, fifty. Write 54 in Roman numerals.			
5	Simplify: *8 – −2	6	Write down the fraction of the shaded part of the drawing below.			

7	Change 750 centimetres into metres.	8	Using a pair of compasses, a ruler and a pencil only, draw an angle of 60° in the space provided below.
9	Given set C = {2 , 7 , 10 , 17} and set D = {5 , 6 , 7 , 11 , 15}, find C∩D	10	In a basket, 4 bad eggs are mixed up with 3 good eggs. If an egg is picked at random from the basket, what is the probability of picking a good egg?
	Workout: 2.0 + 0.5	12	Simplify: $\frac{5}{9} - \frac{2}{9}$
13	On the number line below, show 4 x 2.	14	Five pupils scored the following marks in a mathematics test: 55 , 72 , 61 , 93 and 60. Find the median mark.
	< 		

15	In the diagram below, find the value of x.	16	It started raining at 9:45a.m and stopped at 1:25p.m. For how long was it raining?
17	How many lines of folding symmetry does the figure below have?	18	Find the next number in the following sequence.
			I , 8 , 27 , 64 ,
PI	Given that $p = -4$, $q = 3$ and $c = -2$, find the value of $\frac{pq}{c}$	20	Solve: $2(3x - 6) = 24$
21	The circumference of a circle is 88cm. Find its radius. $(use \pi = \frac{22}{7})$	22	Change 0 _{two} to base ten.

23	Workout: 6 8 8 5 + 8 4 3 7 In a market, one buys 5 mangoes at sh. 1,500. How many similar mangoes does one buy with sh. 1,200?	24	In the Venn diagram below, shade the area (A \cap B) A B B B B B B B B B B B B B B B B B B B
27	A man drove a car steadily at a speed of 25 metres per second. Change this speed into kilometres per hour.	28	Arrange the following fractions in order beginning with the smallest: $\frac{2}{7}$, $\frac{2}{9}$ and $\frac{1}{3}$
29	If \bigoplus represents 1500 pupils in a school, find the number of pupils represented by \bigoplus	30	A farmer banked sh. 126,000 for 4 months at a simple interest rate of 8% per year. Find his interest.

31	Atar	oartv attende	d by 60 pupils	, 42 ate chicken (C), (k	(+ 8) ate meat (M)		
•	only, k	ly, k pupils ate both chicken and meat while 6 did not eat any of the two					
	items.						
	a.	Use the information given above to complete the Venn diagram below					
			∩ (ε) = 60	•	5		
		<u> </u>		М			
			\mathbf{X}				
			(к)				
			\sim				
	L.						
	D.	rind the value	ЭОТ К.				
	c.	If a pupil is p	icked at rando	om, what is the probabi	lity that a pupil ate		
		meat?					
32	Fatum	na went to the	e market and	bought the items showr	n in the table below.		
	a.	Complete the	table.				
		Item	Quantity	Price	Amount		
		_					
		Lggs	15	Sh. 500 per egg	Sh		
		Magt	ka	Sh 6 000 non ka	SL 15 000		
		Ivieal	кд	Sn. 0,000 per kg	3n. 10,000		
		Cooking oil	1 — litre	Sh per liter	Sh. 2.000		
			2	···· p ··· ··· ··			
		Sugar	$1\frac{1}{-}$ ka	Sh 3,000 per ka	Sh		
			1 ¹ ²				
			TOTAL EXPE	NDITURE	Sh		
	L		ont to the mar	nkat with all 20 000 L	ow much did she		
	μ.	b. It Fatuma went to the market with sh. 30,000, how much did she					
		remain with?					
		remain with?					

PQR in which PQ = 6cm, angle RPQ = 60° and angle PQR = 45°. Construc perpendicular from R to meet PQ at Y.	ta				
perpendicular from R to meet PQ at Y.	PQR in which PQ = 6cm, angle RPQ = 60° and angle PQR = 45° . Construct a				
	perpendicular from R to meet PQ at Y.				
b. Measure RY					
34 A teacher recorded marks of P7 pupils in a mathematics test as show	vn in				
the table below. Study it carefully and use it to answer questions tha					
follow.					
Marks 72 85 90 95 96					
No. of pupils 4 12 1 4 5					
a. Find the range of marks.					
b. What is the modal mark?					
c. Workout the mean mark of the pupils who scored above 85.					

35	The rates at which the bank buys and sells United States dollars and Kenya			
	shillings are given in the table below.			
	Currency	Rate at which a bank buys	Rate at which a bank sells	
	One U.S dollar	Ug. Sh. 2,800	Ug. Sh. 2,900	
	One Kenya shilling	Ug. Sh. 28	Ug. Sh. 30	
	a. If a trader ha in Uganda shillii	is 300 dollars and 500 Keny ngs can he get from the ban	a shillings, how much money k?	
	b. Peter has Ug. S bank?	Sh. 160,000, how many U.S d	ollars can he get from the	
36	In the diagram below, line AB is parallel to line CD and PRD is an isosceles			
	triangle. Study it carefully and use it to answer questions that follow.			
	$A \xrightarrow{\Gamma} B$ a. Find the value of x.			
	\checkmark			
	\bigwedge			
	7x°	3x02		
	C R			
	U N	U		
	b. Workout the size	of angle CRP.		
37	In the diggram below	w AC = 56cm and FC is half	of AC. Find the area of the	
0.	shaded part. (use π	$=\frac{22}{2}$		
		7)		
		<u>j</u>		
		C		





	MATHEMATICS PLE 2010					
ŗ	CANDIDATE'S INFORMATION					
	Index number :					
İ	Name :					
1	Signature :					
	School name :					
	District name :					
' _	<u></u> <u>SECTION A</u>	<u>: 40</u>	<u> MĀRKS</u>			
I	Workout: 10 ÷ 2	2	Simplify: 2x + 3x			
3	Write in figures:	4	Given set A = {a , b , f , k} and set			
	Sixty one thousand.		B = {a , c , k}, find n(AUB)			
5	Simplify: -5 + -2	6	Write 49 in Roman numerals.			

7	Shade $\frac{1}{2}$ of the drawing below.	8	Using a pair of compasses, a ruler and a pencil only, bisect the line below.
9	What is the value of 5 in the figure 65011?	10	Change 2.5 metres to centimetres.
I	Cards labelled I to 5 are folded, put in a bucket and mixed up. What is the probability of picking a card having a prime number?	12	Seven children had the following ages: 7 , 3 , 6 , 2 , 5 , I and 4. Find the mean age.
13	In the triangle below, find the size of angle g in degrees.	14	Workout: I 6 5 x 4

15	Given that $a = 3$ and $b = 4$, find	16	Find the next number in the
	the value of $2a + 2b$		sequence:
			23 , 19 , 16 , 14 ,
17	A fifty minute test started at 9:50a.m. At what time did it end?	18	Solve: 4 <i>p</i> - 4 = 20
PI	In a line of vehicles, a bus was the 7 th from each end of the line. How many vehicles were in the line?	20	In the Venn diagram below, shade the area (YUQ)
21	Workout: $\frac{5}{12} - \frac{5}{9}$	22	Change II _{ten} to base two.

23	In the diagram below, find the co-ordinates of point K.	24	A boy ran a distance of 6km in 45 minutes. What was his speed in
			kilometres per hour?
25	Arrange the following decimals in order beginning from the smallest:	26	How many edges does the figure below have?
	0.II , 0.5 and 0.03		
27	Workout: 6702 — 4865	28	Four packets of mango juice cost sh. 2,000. What is the cost of
			seven similar packets?
29	In a P.7 class, $\frac{2}{5}$ of the pupils are	30	In the diagram below, find the bearing of town Z from town W.
	girls. If there are 150 pupils in class, find the number of boys.		N ↓ 50° W Z

31	In a class party of 51 pupils, 28 drank mirinda (M), 29 drank pepsi (P), y					
	drank both mirinda and pepsi while b did not drink any of the two sodas.					
	a. Use the information given above to complete the venn diagram below. n(s) = 51					
	$n(\varepsilon) = 0$ b. Find the value of y.					
	M					
	((¥))					
	6					
	c. Find the number of pupils who drank one type of soda only.					
32	a Using a ruler, a pencil and a pair of compasses only construct a rectangle					
02	ABCD in which $AB = 8$ cm and $BC = 7$ cm.					
	b. Measure the length of diagonal AC.					
	c Measure the angle BAC					
33	The table below shows the arrival and departure time of a bus that travels					
----	--	-------------------	-----------------------	-------------------------------	----------------	
	from Kampala to Hoima daily.					
		Town	Arrival time	e Departure time		
		Kampala		7:30a.m		
		Busunju	8:10a.m	8:30a.m		
		Bukomero	9:30a.m	9:45a.m		
		Kiboga	10:15a.m	10:40a.m		
		Hoima	11:40a.m			
	a. At w	hat time does the	bus leave Kamp	pala?		
	b. How	long does the bus	stay at Bukomo	ero?		
	c. How long does the bus take to travel from Bukomero to Kiboga?				oga?	
	d. Find the total time taken by the bus to travel Hoima?		o travel from Kampala	to		
34	a. Solve: 21	n+3 = 18 - m	b.S	Solve: $2(3x - 1) - 4(x - 1)$	(-1) = 4	
	u. UUIVE: 21	n 1 5 – 10 m			т <i>у</i> — т	







	1 1 1 1
4I	A man spends $\frac{1}{3}$ of his salary on food, $\frac{1}{9}$ on clothing, $\frac{1}{6}$ on medical, $\frac{1}{18}$ on
	house rent and banks the rest which is shs.35,000.
	a. What fraction of his salary does he bank?
	b. How much money does ne earn as salary?
42	Simplify:
	a. $n^2 \times n$
	b. $m^{o} \div m^{3}$
	$a^2 \times a^5$
	c. $\frac{a^{3}}{a^{3}}$

	MATHEMATI		<u>S PLE 2009</u>
	CANDIDATE Index number : Name : Signature : School name :		
			MĀRKS
3	Workout: I 3 + 4 3 In the Venn diagram below, find n(A∩B).	2	What fraction of the circle is shaded?
	$ \begin{array}{c} $		
5	Simplify: 6y + 4y - 5y	6	Write in figures: Forty two thousand eight.

7	Using a protractor, measure the angle below.	8	Round off 9.46 to the nearest tenths.
q	Workout: $\frac{4}{7} + \frac{8}{21}$	Ю	Find the missing number in the factor tree below.
	Change $3\frac{1}{2}$ Kg into grams.	12	Workout: 2 0 0 - 1 1 2
13	A primary seven pupil got the following marks in daily mental work exercises for a week: 7,6,6,7,2,6,8 What was the pupil's modal mark?	H	Arrange the following fractions in order beginning with the biggest: $\frac{1}{4}$, $\frac{2}{3}$, $\frac{3}{5}$

15	Given that set M = {I , 2 , 4}. How many subsets are in set M?	16	Workout: +7 — -4
17	Workout: $2\frac{1}{-}-\frac{1}{-}$	18	David got a loan of Shs. 500,000
	2 4		from a bank at a simple interest rate of 20% per annum. What was the interest on the loan after a period of 9 months?
PI	Find the area of the figure below.	20	Primary seven pupils will have a party next week. Find the probability that the party will take place on a day that starts with letter T.
21	Workout: I O I _{two} + I I I _{two}	22	The cost of 5 bars of soap is Shs. 5,400. Find the cost of 3 similar bars of soap.

23	Write the next number in the	24	In the figure below, find the value
	sequence:		of n in degrees.
	Ι, Ϥ, Ϥ, ΙϬ,		n°
25	How many vertices does the figure	26	A mathematics test was given to a
	below have?		class of 50 pupils and 45 of them
			passed the test. What percentage
			of the pupils failed the test?
27	On the graph below, mark point	28	Solve: $3x - (x + 3) = 3$
	M(-1 , 4)		
	<u>-5 -4 -3 -2 -1 0 1 2 3 4 5</u>		
	-2		
29	Solve for x: $3 + 4 = x$ (finite 5)	30	A fisherman saw a boat on water
			on a bearing of U60°. What was
			the boat?

SECTION B: 60 MARKS

31	A man sells mangoes in heaps of five and eight. A heap of five mangoes costs 500/= and a heap of eight mangoes costs 1,000/=. He had 12 heaps of five and 14 heaps of eight mangoes. a. How many mangoes did he have altogether?
	b. How much money did he get after selling all the mangoes?
32	a. Using a ruler, a pencil and a pair of compasses only, construct a triangle PQR in which angle PQR = 30°, PRQ = 45° and line QR = 10cm, which is the base of the triangle.
	b. Measure:
	PQ = PR =
	c. Find the perimeter of the triangle PQR.



35	At a birthday party attended by 40 guests, 18 ate chicken (C) only, 13 ate		
	meat (M) only, ${\it X}$ guests ate both chicken and meat and 4 did not eat any of		
	the two dishes.		
	a. Use the information given above to complete the Venn diagram below.		
	$n(\varepsilon)$ =		
	$\left(18 \left(x \right) 13 \right) \right)$		
	b. Find the value of X .		
	c. How many quests did not eat meat at all?		
	c. Now many guests and not ear mean at an:		
36	A businessman has 200 bags of maize flour each weighing 50kg.		
	a. Find the total weight of the bags in tonnes.		
	b. If a pickup carries 2 tonnes per trip, workout the number of bags the		
	pick-up will carry in one trip.		
	c. Find the number of trips the pickup will make to transport the whole flour from the milling machine to his shore		

37	On a mixed farm, $\frac{1}{3}$ of	On a mixed farm, $\frac{1}{2}$ of the land is used for growing food crops while $\frac{1}{4}$ of		
	the remaining land is for cash crops. The rest of the land is for cattle			
	grazing.			
	a. What fraction of	the land is for	r cattle grazing'	?
	h Tf 15 heatanas an	o used for each	a anona what is	the total area of the
	farm?	e used for casi	r crops, what is	The ford dred of the
20	T	<u>і а Гі</u>	<u> </u>	
38	In a primary school, ead	ch pupil [lays or	nly one game. I h	ne pupils who play each
	Use the information to	answer the au	estions that fol	ow.
		Game	No. of pupils	
		Football	55	
		Basketball	40	
		Volleyball	45	
		Tennis	20	
		Netball	40	
	a. What percentage	of the pupils p	olay netball?	
	b. If a pupil is picke	d at random, w	hat is the prob	ability that a pupil
	plays volleyball?		•	, , ,
	c. Find the mean nur	mher of numils	who play games	in the school
			who play games	

1

39	a. Draw beads to show the number 30)2 on the abacus below.
	H T O J J J b. Write 3409 in standard form.	
	c. What is the place value of 4 in the	number 240?
40	Square tiles of side 20cm each were 600cm by 400cm. a. Find the number of tiles needed	laid on the floor of a room measuring to cover the floor.
	b. If a box containing 25 tiles cost the tiles needed to cover the w	s shs. 30,000, find the total cost of hole floor.
Ч	a. Solve the inequality:	b. Solve the equation:
	3(x+4) < 5x - 2	$2x - 2 = \frac{1}{4}x + 5$



	MATHEMATICS PLE 2008				
	CANDIDATE'S INFORMATION				
I	Index number :				
I	Name :				
	Signature :				
i	School name :				
	District name :				
-		<u>.: 4(</u>	<u>D MĀRKS</u>		
3	Workout: 60 ÷ 6 Simplify: 4k - 3k + k	2	Given that set K = {I , 2 , 3 , 4 , 5} and set L = {0 , 5 , 7}. Find (K∩L) A meeting started at 9:30am and lasted 50 minutes. At what time did it end?		
5	Express 0.3 as a fraction.	6	Arrange the following numbers beginning with the smallest: 3 , 0 , –1 , 8 , –6		

7	Using a pair of compasses, a ruler and a pencil only, construct an angle of 30°.	8	Abdul bought the following number of goats during the week as follows: Days Mon Tue Wed Thur Fri Goats 3 2 5 7 8 Find the range.
9	Write CXC in Hindu-Arabic numerals.	Ю	If Nandi buys 4 text books for shs. 240,000, how much will 9 similar books cost?
l	Write in words: 3,602	12	The time on the 24-hour clock is 13:42hours. What will it be on the 12-hour clock?
13	Find the next number in the sequence: $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16},$	14	A trader got a simple interest of shs. 18,000 after depositing shs. 90,000 in a bank at an interest rate of 10% per annum. For how long was this money in the bank?

15	A taxi carries IY passengers while a bus carries 29 passengers. If the two vehicles make two journeys each, how many passengers will they carry altogether?	16	Solve the equation: 5t - 2(t + 1) = 1
17	Change 9 base ten to base two.	18	The base of a cube is 25cm ² . Calculate the volume of the cube.
Pl	Solve the inequality: $2p + 4 > 6$	20	The exterior angle of a regular polygon is 45°. Find the number of sides the polygon has.
21	The difference between $\frac{1}{5}$ and $\frac{1}{6}$ of a number is 7. Find the number.	22	Find the value of angle W in the figure below.

23	A motorcyclist covered a distance of 42km in $3\frac{1}{2}$ hours. Calculate the average speed of the journey.	24	Study the Venn diagram below carefully and answer the questions that follow. $n(\varepsilon) = 38$ $\boxed{\begin{array}{c}n(\varepsilon) = 22 & n(P) = 18\\(22 - 5 & 5 & 18 - 5\end{array}\right)}$ Find n(EUP)
25	Simplify: $\frac{3}{9} - \frac{1}{18}$	26	Workout: $\frac{0.25 \times 5.4}{0.045}$
27	Find the square root of 1.96	28	Find the area of the shaded part in the figure below.
29	Solve: 5 + n = 3 (finite 7)	30	Peter scored the following marks in a test: 9 , 8 , 7 and 4. Find Peter's mean score in the test.

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

SECTION B: 60 MARKS





h	
35	A certain county in Uganda has a population of 300,000 people. Of these, $\frac{3}{5}$
	are female and $\frac{5}{6}$ of the females are girls.
	a. If $\frac{2}{3}$ of the males among the population are boys, find the ratio of boys to girls.
	b. What is the total number of boys and girls in the county?
36	The figure below shows a regular six-sided polygon of sides 8cm long enclosed in a circle of radius 5cm. Triangle OAB of height 3cm is part of the polygon.
	b. Find the area of the shaded region. (<i>use</i> π = 3.14)







42	A ship left Port Bell for Kisumu on a bearing of 090°. It sailed for 120km then changed its course and sailed on a bearing 130° for 90km before reaching Kisumu.	
	a. Draw a sketch diagram of the journey.	
	b. Using a scale Icm=20km, draw an accurate diagram of the whole iournev.	
	c. vynat is the bearing ot Nisumu from fort Bell?	
1		

	MATHEMATICS PLE 2007				
- - -	CANDIDATE'S INFORMATION				
Ì	Index number :				
I	Name :				
I	Signature :				
i	School name :				
	District name :				
	<u>SECTION A</u>	: 4(<u>D MĀRKS</u>		
3	Workout: $\begin{array}{ccc} & 4 & 3 \\ & \times & 2 \\ & & \\ \end{array}$ Simplify: $6x - 5m + 3m - 4x$	2	Write in figures: One thousand, thirteen. Workout: t ⁶ ÷ t ²		
5	Solve: $3 - x = 2x$	6	Simplify: -5 — ⁺5		

7	Write 99 in Roman numerals.	8	Find the value of y in the figure below.
q	Find the next number in the sequence: 2 , 5 , 7 , 10 , 12 ,	ΙΟ	Using a ruler, a pencil and a pair of compasses only, construct an angle of 90° in the space provided below.
	Express 36 as a percentage of 80.	12	Find the median of the following numbers: 3 , 0 , 5 , 4 , 2
13	Given that $x = 3, y = 4$ and $z = 6$, find the value of $\frac{xy}{z}$	14	Change 12,400 metres to kilometres

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

15	The radius of a wheel of a bicycle is 35cm. find the circumference of the wheel. $(use \ \pi = \frac{22}{7})$	16	Change 11010 _{two} to base ten.
17	Find the sum of the values of the digits 3 and 5 in the number 3958.	18	The first half of a football match ended at5:25p.m after being played for 45 minutes. At what time did the match start?
PI	In the diagram below, shade the region that represents only the members of set B.	20	Simplify: $\frac{0.12 - 0.06}{0.06}$
21	Find the square root of $5\frac{4}{9}$	22	James sold a cow at sh. 320,000. If he made a profit of sh. 80,000, find the price at which he bought the cow.

23	Find the value of x in the figure below.	24	Workout: $1\frac{1}{12} - \frac{5}{6}$
25	The total number of black and blue pens in the bag is 12. If the probability of picking a blue pen from the bag is $\frac{2}{3}$, how many black pens are in the bag?	26	How many lines of symmetry does a rectangle given below have?
27	Maria has a bundle of five thousand shilling notes numbered consecutively from AP534201 to AP534300. How much money does she have?	28	Use the graph below to answer the question that follows.

29	Solve the inequality: $1 + \frac{1}{2}x > 2$	30	A bank gives a simple interest rate of 12% per annum. What will be the interest on sh. 400,000 banked for 9 months?
	SECTION B	: 60	<u>D MARKS</u>
31	In a class of 30 students, 20 play v	olley	ball (V), 15 play football (F), (x)
	play both volleyball and football and	2 do	o not play any of the two games.
	a. Use the intormation given abo $n(\varepsilon) = 30$	ve to	o complete the Venn diagram below.
	b. Find the value of x.	۶ ۲	2
	c. Find the number of students v	who	play only one game.
32	Kaliso's poultry produces 3,000 egg trays of 30 eggs each, how many ti	is in rays	a day. If the eggs are packed in of eggs does he produce in a week?

33	a. Using a ruler, a pencil and a pair of compasses only, construct a
	parallelogram KLM in which \overline{KL} = 4cm, \overline{LM} = 6cm and angle NKL = 60°.
	b. Measure the length of diagonal KM.
34	Betty was given sh. 20,000 to buy things to take to school and she bought
	the following:
	≥ 2 denotes a formula backs at the 2,000 mer denote
	S dozens of exercise books at sn. 2,000 per dozen.
	➤ Y bars of washing soap at sh. 900 per bar.
	➤ 4 tablets of washing soap at sh. 1,200 per tablet.
	\geq 2 tubes of toothpaste at sh 800 per tube
	a How much monow did she should alteration?
	a. Now much money and she spend an ogement:
	h. How much money did she remain with?
	b. Now much money ald she remain with:

35	Kato wrote three digit numbers using the digits I, 3 and 6. a. Write down all the possible three digit numbers greater than 300 that Kato wrote.
	b. What was the probability of Kato writing an even number?
36	Milk was mixed with water to make tea. If 14 litres of milk was used and this was 40% more than the amount of water in the tea, how much tea was prepared?
37	a. Given that $\frac{2}{3}$ of Peter's salary is equal to $\frac{3}{4}$ of Mary's salary, find Peter's salary if Mary's salary is sh. 120,000.
	b. Express Mary's salary as a fraction of Peter's salary.

38	In the diagram below, PTUV is a straight line, angle TSU = 40°, angle SUV =		
	150° and angle PQT = 30° . Use the given information to find the value of each		
	of the angles marked k and n.		
		<u> </u>	
	$\int n^{\circ} \int k^{\circ}$	150°	
	\backslash /		
	\		
	300		
	\oo∕S		
	V		
	Q		
39	a. Solve: $\frac{1}{2}m + 7 = 2m - 2$	b. Solve: $\frac{10}{10} + 4 = 24$	
	2	n	
40	a. Workout: $\frac{2.7 \times 4.8}{2.1 \times 2.1}$	b. Simplify: $1\frac{1}{6} \times 1\frac{1}{7} \div 2\frac{1}{2}$	
	2.4×3.6	6 7 5	




MATHEMATICS PLE 2006				
CANDIDATE'S INFORMATION				
¦ Ind	ex number :			
Na	me :			
l Sig	nature :			
l Sch	nool name :			
l Dis	strict name :			
'	<u></u> <u>Section</u>	<u>Ā: 4</u> 0	<u> </u>	
IW	orkout:	2	Write in figures:	
	F C		One thousand, one	
	56 -45			
3 Sin	nplify: m + 2m + 3m	4	Workout: $\frac{2}{3} \times \frac{9}{10}$	
5 Bo	und off 2347 to the pagnest	6	Write 29 in Roman numerals	
wh	ole number.		withe 2 thin Norman numer dis.	

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

7 Shade $\frac{2}{5}$ of the following diagram	am. 8 Workout: I O _{two} + I I _{two}
 9 Find the next number in the sequence: 21, 20, 18, 15, 11, 	10 Workout: -83
II Change $\frac{1}{5}$ kg to grams	I2 Solve: $2x + 7 = 11$
13 In the figure below, AB is para to CD. Find the value of x. A	Illel IH A pupil scored the following marks in Mathematics tests: 46 , 71 , 30 , 65 , 40 , 50 , 69. Find the median mark.

Α

15	The area of a square room is $12\frac{1}{4}$ m ² . Find the length of one of its sides.	16	A basket contains 3 bad eggs and 6 good ones. If the eggs in the basket are mixed, what is the probability of picking a bad egg from the basket?
17	A baby slept at 8:30am. If the baby slept for 2 hours and 45 minutes, at what time did the baby wake up?	18	Use the figure to write the Mathematical statement shown.
PI	Use the Venn diagram below to find the value of x. $n(\varepsilon) = 20$ M x 5 q 2	20	Find the perimeter of the figure below. I3m 9m 6m 4m

21	Given that set A = {0, 1, 2, 3, 5, 7} And set B ={0, 4, 6, 7, 9}, find n(A∩B)	22	Abdul is x years old. He is 5 years younger than Madina. How old is Madina?
23	Given that $a = 6, b = 3, c = 2$ and $d = 1$. Find: $\frac{ad}{bc}$	24	Using a ruler, a pencil and a pair of compasses only, construct an angle of 120° in the space provided below.
25	If 4 books cost sh. 36,000, how much will 6 books of the same type cost?	26	The figure below is an isosceles triangle. Find the size of angle x.

MATHEMATICS PLE PAST PAPER WORKBOOK FOR P.7 CLASS BY MUTEESA II MEMORIAL NURSERY AND PRIMARY SCHOOL-MUTUNDWE

27	Find the difference between the value of 9 and the place value of 7 in the number 9473.	28	In a school of 600 pupils, the ratio of boys to girls is I : 2. What is the number of girls in the school?
29	Mary deposited sh. 60,000 in a bank which gives a simple interest rate of 7% per year. Find her interest after 6 months.	30	The price of a shirt was increased by 10%. If the new price is sh. 44,000, find the old price.

SECTION B: 60 MARKS



32	Jane bought the following items from the market.		
	≻ 3kg of sugar at shs. 1,400 per kg.		
	$\ge 1\frac{1}{2}$ kg of rice at shs. I,200 per kg.		
	$\succ 1\frac{\overline{1}}{2}$ litres of paraffin at shs. 900 per litre.		
	8 oranges at shs. 50 per orange.		
	If Jane remained with only shs. 250, find the total amount of money she		
	had at first.		
	2 1		
33	A primary school has a population of 1,080 pupils. Of these, $\frac{3}{4}$ are girls and $\frac{1}{5}$		
	of the boys are in upper primary classes.		
	a. Find the total number of boys in upper primary classes.		
	b. Express the number of boys in lower primary classes as a percentage		
	of the whole school population.		
34	A milk seller has 36 litres of milk. He sells milk using a container measuring		
	6cm by 10cm by 6cm at shs. 150 per full container. How much money does he		
	get after selling all the milk?		

35	John and his young daughter travelled from Kampala to Nairobi by bus. John		
	paid K.shs. 1,500 and the daughter paid K.shs. 750. The exchange rate was: Kenva shilling (K.shs.) = 24 Uganda shillings (U.shs.)		
	a. Workout the bus fare in Uganda shillings which each of them paid.		
	a. Workour me bud rare in aganaa shiinngo whon oach or mom pala.		
	b. If John had Ug. Shs. 102,000 at the beginning of the journey, what		
	was his balance in Kenya shillings after paying the bus fares for		
	himself and the daughter?		
36	The figure below shows a semi-circle enclosed in a rectangle. Use it to		
	answer the questions that follow.		
	K Hcm		
	a. Find the area of the rectangle.		
	b. Workout the area of the un-shaded part. $\left(use \ \pi = \frac{22}{7}\right)$		

37	The head teacher drove from school to town P for 3 hours at a steady speed of 60km per hour. He left town P at II a.m and drove back to school along the same road at a steady speed of 90km per hour. a. At what time did the head teacher arrive at the school?		
	b. Workout the head teacher's aver	age speed for the whole journey.	
38	Three pupils are aged (2x + 5), (3x - 10) 34 years. a. Find the value of x.) and (x + 3) years. Their total age is	
	b. How old is the youngest pupil?		
39	a. Solve: $\frac{m+2}{2} = \frac{4m-4}{11}$	b. Solve: $\frac{2x+4}{5} - 6 = 0$	



Ч	a. Using a ruler, a pencil and a pair of compasses only, construct a triangle KLM in which KM = 6.5cm, angle KML = 45° and angle LKM = 60°.
	b. Measure ML
42	The Yie chart below shows how Kalinda spends his monthly salary.
	a. If he spends shs. 15,000 on rent, find his salary.
	Food Savings
	60° 135° Medical
	Care Fees
	a. Workout the amount of money he spends on;
	i. Food ii. Medical care

PUPIL'S NOTES AND CORRECTIONS

· · · · · · · · · · · · · · · · · · ·	