MATHEMATICS PLE 2018

CANDIDATE'S INFORMATION									
Index number :									
Name :						 		 	
Signature :									
School name :									
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)	7	A teacher counted pupils without school uniform in a class and tallied them as follows: HH HH HH HH 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: $5k - 2(3 - k)$				

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 M Angle KLM =	9	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.	Н	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.

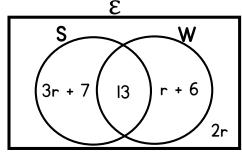
15	The following heights of six children were recorded at a health centre: 53cm, 64cm, 59cm, 51cm, 63cm and 61cm. Find the median height of the children.	16	Given that I US dollar (\$) costs Uganda shillings (Ug.sh) 3,672 and I Kenya shilling (K.sh) costs Ug.sh 36, find the cost of I US dollar in Kenya shillings.
17	Find the value of p in degrees in the diagram below. 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.
Id	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.

SECTION B: 60 MARKS

21 At a party, guests were served with soda (S) and mineral water (W) as shown in the Venn diagram below. Study and use it to answer the questions that follow.

a. If 32 guests were served with soda,

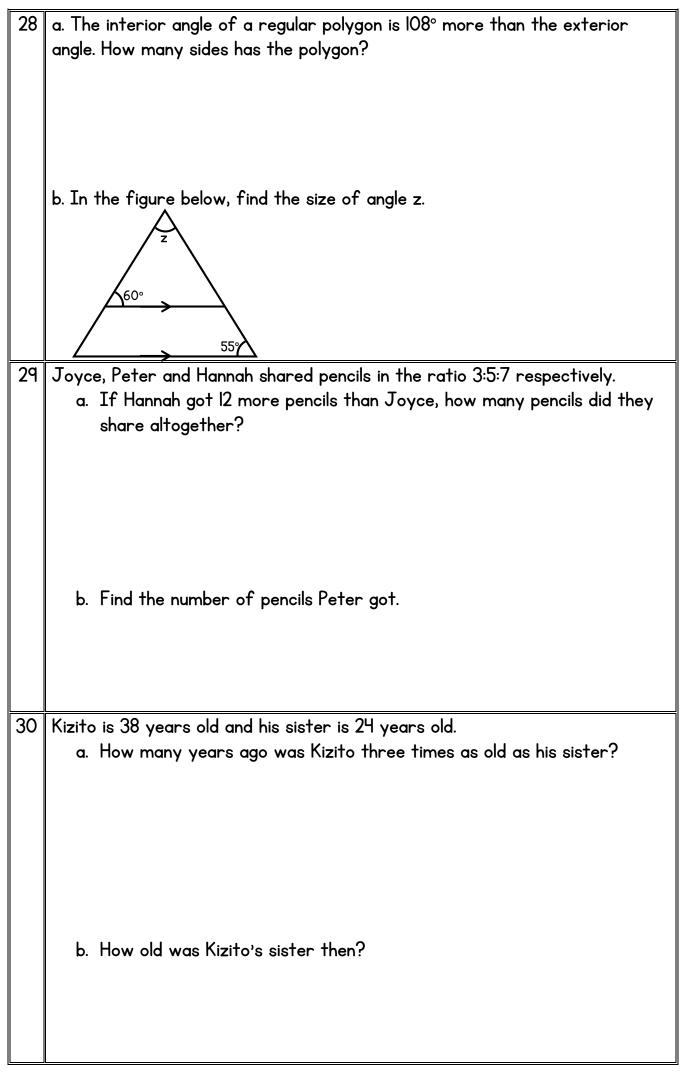
(i). find the value of r



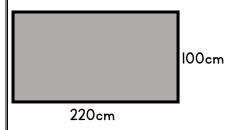
(ii). find the total number of guests who attended the party.

	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: $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{14} + 2\frac{7}{15}$
	5. Simplify: $\frac{7}{5} \times \frac{7}{7} \cdot \frac{14}{14} + \frac{2}{15}$
23	a. Write the place value of 2 and 1 in 201 _{three}
20	a. T o The place value of 2 and in 201three
	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
	Lom
	8cm b Calculate the values of the priors
	l0cm b. Calculate the volume of the prism.

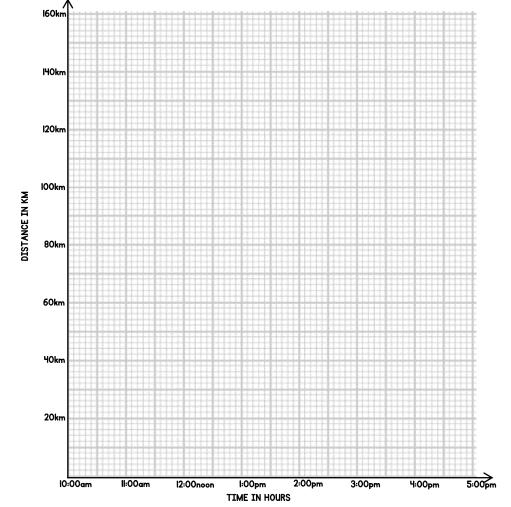
25	Study and complete Mukasa's shopping table below:							
	Item	Quantity	Unit cost	Amount				
	Sugar	3kg	sh per kg	sh. 14,400				
	Rice	kg	sh. 5,000 per kg	sh. 2,500				
	Milk	250 ml	sh. 3,000 per litre	sh				
	Biscuits	2 packets	sh per packet	sh				
		Total exp	enditure	sh. 29,650				
26	a. Using a pair of compasses and a ruler only, construct a rhombus UVXY whose diagonals are I4cm and I0cm. b. Measure the length VX cm							
27	The average weight of four boys is 56kg. When two other boys join the group, the average weight becomes 52kg. The sixth boy is 8kg heavier than the fifth boy. Find the weight of the sixth boy.							



31 The figure below shows a rectangular sheet of metal. The sheet is curved to form the wall of a cylindrical tank whose height is 100cm.



- a. Find the diameter of the tank formed. $(\pi = \frac{22}{7})$
- b. Calculate the;
 - (i). area of the sheet needed to cover the base of the tank.
 - (ii). Capacity of the tank.
- Town M is 150km from town G. A motorcyclist started a journey from town M at 10:30am. He was travelling at a speed of 25km/hr for 2 hours. He rested for 30 minutes and then continued at a speed of 50km/hr for the rest of the journey to town G.
 - a. Represent the motorcyclist's journey on the graph below.



b. At what time did the motorcyclist reach town G?
