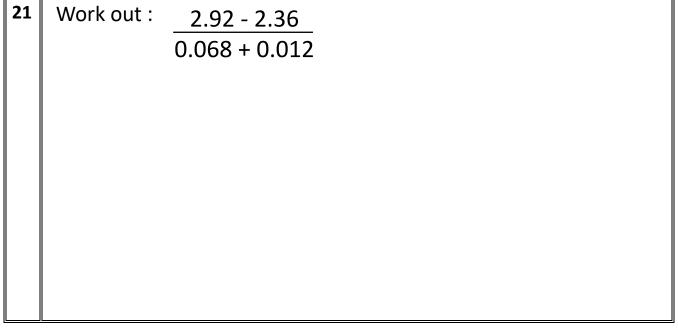
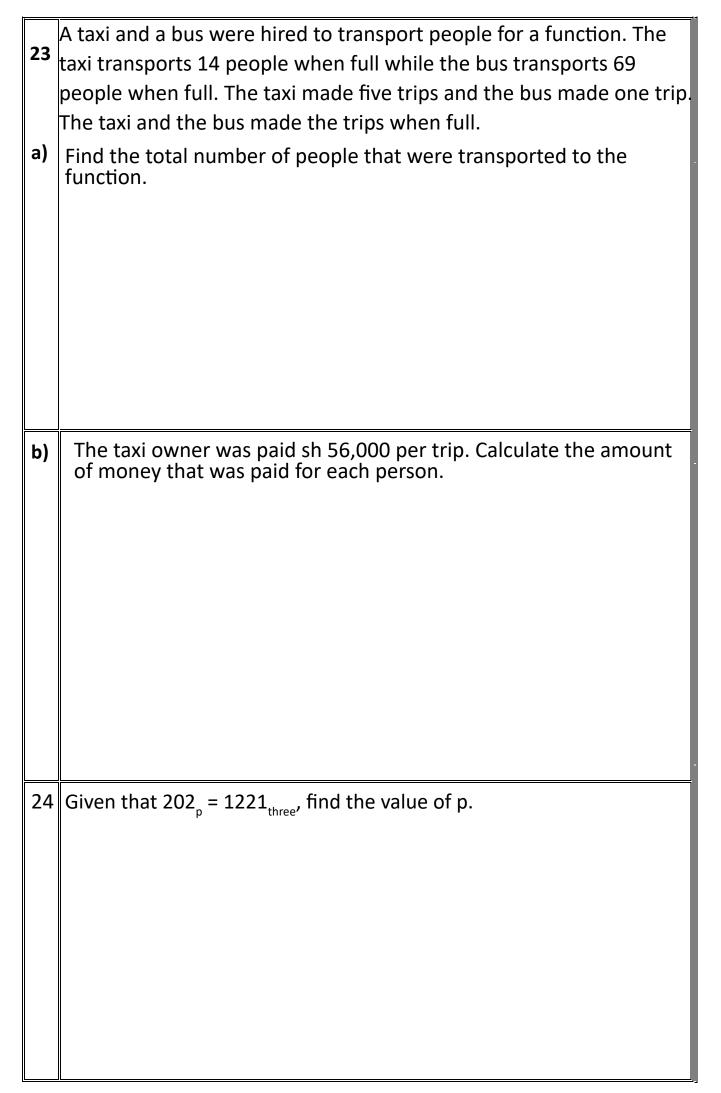
CANDIDATE'S INFORMATION
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	Questions I to	20 c	arry 2 marks each
1	Work out:	2	Write CXIV in Hindu Arabic Numerals
	3 5 x 3		
3	Given that M = {b, a, t}. write down all the subsets of set M.	4	Find a fraction equivalent to $\frac{4}{7}$
5	Expand 3405 using powers of ten.	6	Using a ruler and a pair of compasses only, construct a right angle at point R

ĪĒ	1			
	7	Given that $a = 3$, $b = 1$ and $n = 2$, find the value of $2a^nb$.	8	Find the next number in the sequence:
				2, 3, 6, 11, 18,
ļ	9	It takes Ankunda 35 minutes to walk	10	Otunu sold a goat and made a profit
		from school to home. If she arrived home at 12:20 p.m, what time did she		of sh 18,000. The cost price of the goat was sh 90,000. Calculate Otunu's
		leave school?		percentage profit.
ļ	4.4	Find the largest number that	12	M/a mla a control (12) 21 (12)
	11	Find the largest number that divides both 24 and 18 without a	12	Work out: 42 - 21 + 3
		remainder.		
ĺ	13	The range of a set of scores is 23.	14	Find the perimeter of the figure below.
		The highest score is 76. Find the lowest score.		7 cm
				3 cm 11 cm
				4cm

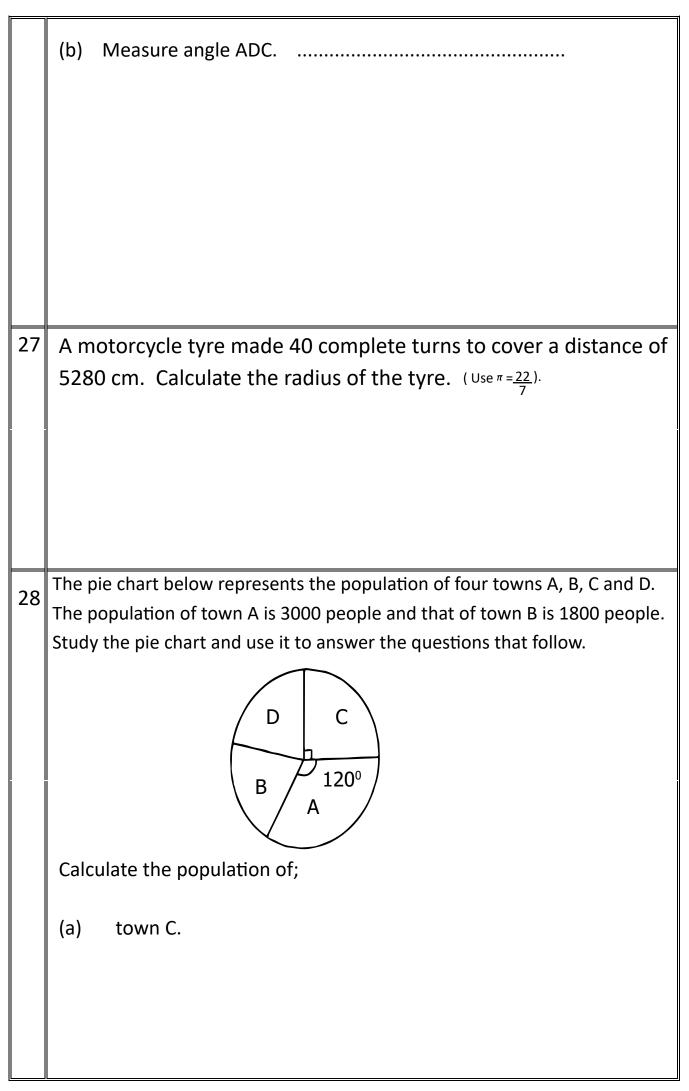
15	A school cook requires 24 kg of maize flour to feed 120 pupils. Find in grammes, the amount of maize flour the cook would require to feed 3 pupils.	16	Akiiki bought a suit at Kenya shillings (Ksh) 11,500. If the exchange rate was 1 Ksh = Ug.sh 32, how much money would Akiiki have paid for the suit in Uganda shillings (Ug.sh)?
17	Solve: 3 - 2y < 9	18	The diagram below shows the position of a church (C) from a school (S) Find the bearing of the church from the school
19	If today is Monday and a cake baked today can expire after 16 dats, what day of the week will the cake expire?	20	One morning, the temperature on top of a mountain was -30C. The temperat ure rose by 80C in the afternoon. Find the afternoon temperature.



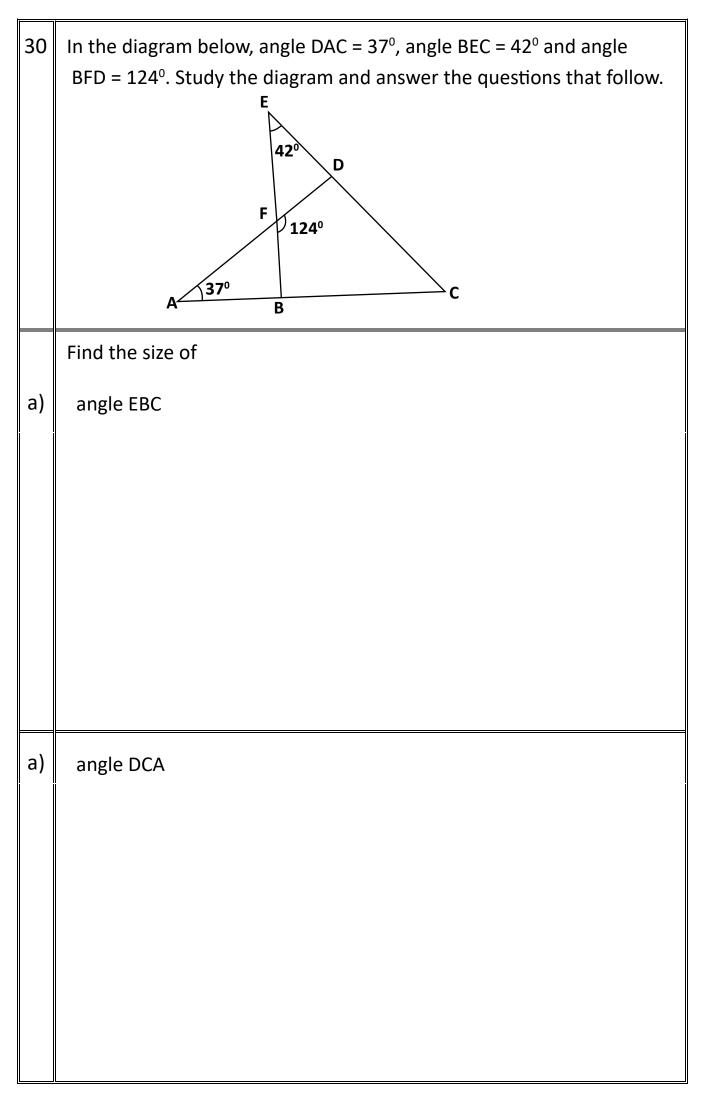


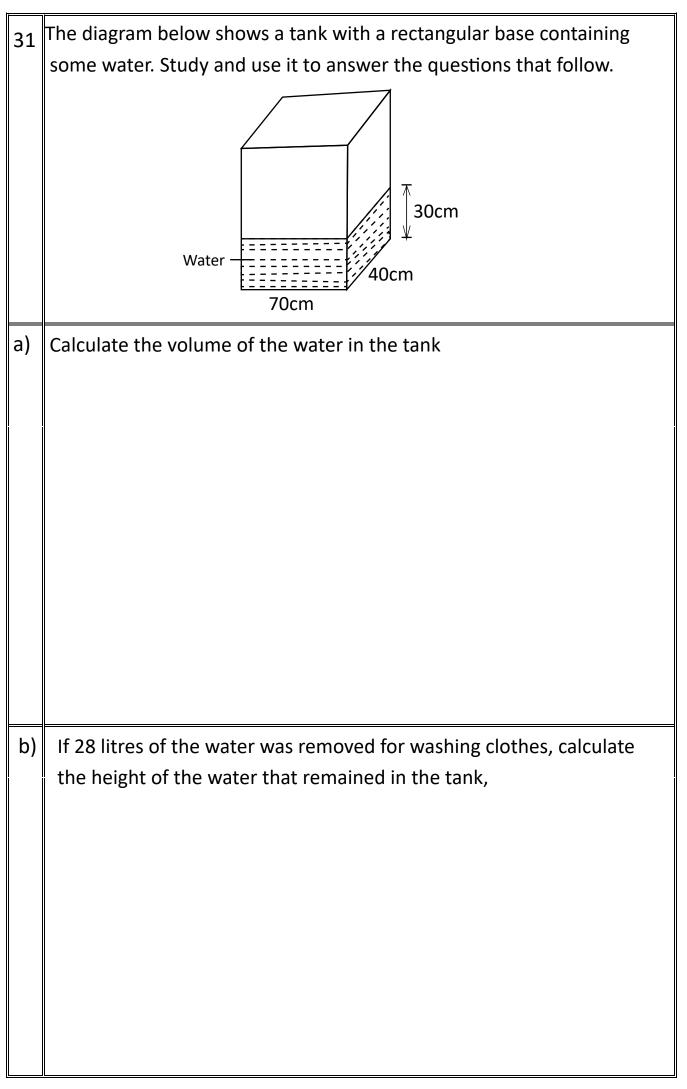
The table below shows the amount of money Rukia paid for food stuff to a business woman after she was given a discount of sh 2,200 (a) Study and complete the table. **Item** Quantity Cost per kg **Amount** Rice 4 kg sh 3,800 shkg sh 5,000 sh 30,000 **Beans Irish Potatoes** 0.5 kg sh sh 1,600 **TOTAL** sh 46,800 Find how much money Rukia would have paid without the discount. 26 (a) Using a ruler and a pair of compasses only, construct a trapezium ABCD in which line AB = 8cm, angle DAB = angle ABC = 600 and line AD = BC = 3 cm

b)



	(b)	town D				
29	(a)	Solve:				
			$\frac{5t-6}{2}=t$	+ 12		
b)	Suk	otact (2m	- 3) from (5m t 2)		





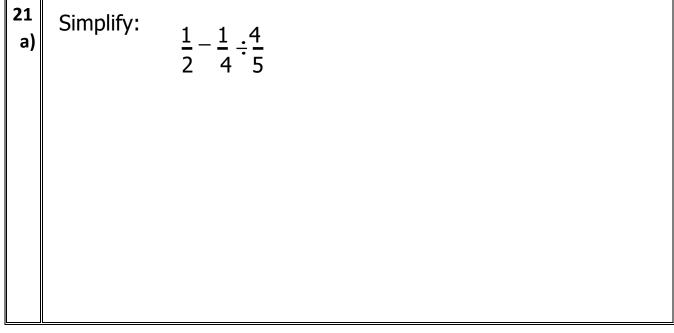
32	40km/	orcyclist left home for town at 8:00 a.m, riding at a speed of h. After 30 minutes, he got a flat tyre which took him 45 minutes air. The distance between the home of the motorcyclist and town m.
	(a)	Find the distance the motorcyclist had covered before he got the flat tyre.
	b)	Calculate the speed at which the motorcyclist had to ride in order to reach town at 10:00 a.m.

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			arry 2 marks each
1	Work out: 63 + 54	2	Write the base ten number shown on the abacus below.
3	Given that R = {a,b,c,d} and S= {a,f,p,c,s}, find n(RuS)	4	Arrange the integers -3, 4, 0 and -1 in ascending order.
5	A training for scouts started on a Wednesday and took 30 days. Find the day of the week on which the training ended.	6	Change 750 millilitres into litres.

7	Find the value of 4 ² + 3 ² x 9 ⁰	8	A meeting that took 2 hours and 15 minutes ended at 1:20 p.m. At what time did the meeting begin?
9	Write the solution set for the inequality P ≤ 3	10	Find the next number in the sequence: 1, 8, 27, 64,
11	Change 14 _{ten} to base three		The graph below shows the cost in shillings of mangoes and oranges. Study the graph and use it to answer the question that follows. 2,500 2,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000
13	Given that 78t is a three-digit number which is divisible by 9, find the digit represented by t.	14	Using a ruler and a pair of compasses only, construct an angle of 45° in the space below.

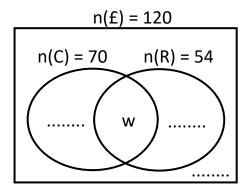
15	Simplify: 5q - 2r - 3q - r	16	A farmer sold the following number of eggs in a period of three days; 62, 73 and 78. Calculate the average number of eggs the farmer sold in that period
17	A business bought a watch at shs 45,000. He sold it and made a loss of shs 1,500. Find his selling price	18	In the diagram below, calculate the size of angle ABC. B 68° A
19	In one hour ,the minute hand of a clock covers 88 cm. Calculate the length of the minute hand. (Use $\pi = \frac{22}{7}$)	20	A pupil scored 20/25 in the first team Mathematics test and 18/20 in the second term Mathematics test. In which test did the pupil perform better?



b)	Work out :	0.27 x 1.2
		0.9

An athlete covered 400 metres in 48 seconds. Calculate the speed of the athlete in kilometres per hour.

- A total of 120 guests were invited for a marriage ceremony. 70 guests attended the church service (C), 54 guests attended the reception (R) and w guests attended both the church service and the reception. 40 guests did not turn up for the marriage ceremony.
 - (a) Use the given information to complete the Venn diagram below.



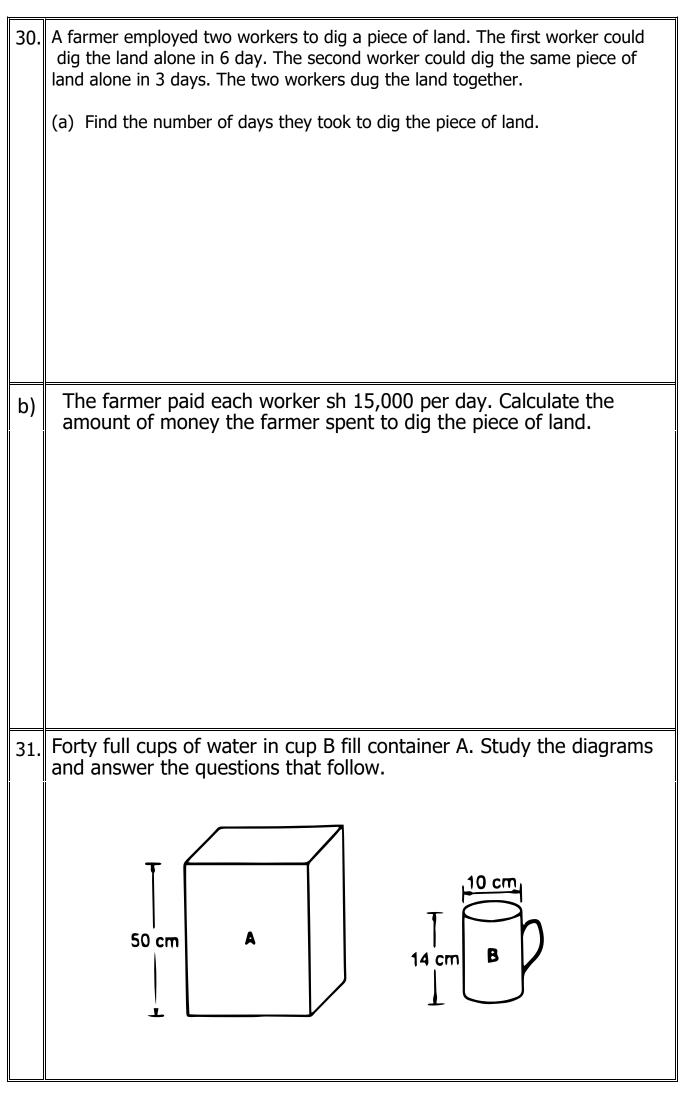
b) Calculate the number of guests who attended both the church service and reception

24	In a certain school, there are 126, 90 and 72 pupils in Primary Five, Six and Seven respectively. In each class, groups with equal number of pupils were formed. (a) Find the largest number of pupils in each group.
b)	How many groups were formed in Primary Five?
25	In the diagraam below, line AB is parallel to line CD, Study the diagram and use it to answer the questions that follow.
	1300
	$A \xrightarrow{P} 70^{\circ} B$
	$c \xrightarrow{k} D$
	Find the size of:
	(a) angle p.

(b)	angle k
26.	A carton of salt contains 40 packets. Each packet has a mass of 250 grammes. (a) Work out the mass in Kilogrammes, of all the packets of salt in the carton.
b)	A family uses a packet of salt every 5 days. Find the number of days the carton will last the family.

27	Using a ruler and a pair of compasses only, construct a kite ABCD in which diagonal AC = 6cm. Diagonal BD bisects AC at X such that BX = 3cm and DX = 5 cm.
с)	The distance from Mbale to Kampala is 275Km. Calculate the average speed of the bus for the whole journey.
28.	A man is four times as old as his daughter. Six years ago, the sum of their age was 48 years. Find:
	(a) the age of the daughter now.

(b)	the age of the man six years ago							
29.	A bank bought and sold fo on a certain day as shown it to answer the questions	in the table below						
	Currency	Buying in Ug.sh	Selling in Ug.sh					
	1 Kenya shilling (ksh)	24	26					
	1 US dollar (\$)	3,900	3,950					
	1 Great Britain pound (E)	4,400	4,700					
	(a) A tourist had E600 and	_	_					
	Find the amount of money in	Uganda shillings the	e tourist got.					
(b)								
(b)	Moses had US dollars 200 to exchange for kenya shillings. Find the amount of money in Kenya shillings he got from the bank							



a)	Find the volume of Cup B. (Use $\pi = \frac{22}{7}$)
b)	Calculate the base area of container A
	The pie chart below represents the number of animals reared on Amanya's farm. Study the pie chart and use it to answer the questions that follow.
(a)	Sheep r+30° cows 3r+40° Goats Find the value of r.

b)	Given that there are 11 more goats than sheep on the farm, calculate the total number of animals on the farm.

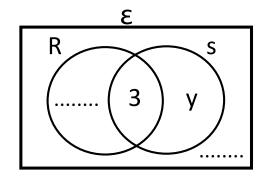
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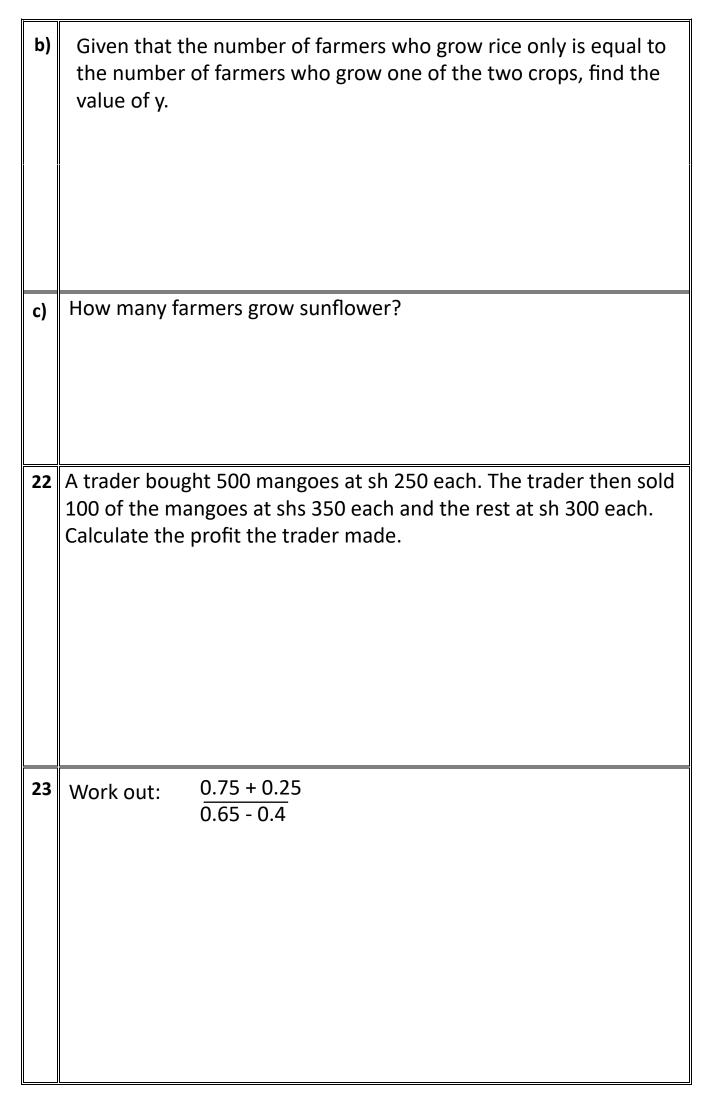
i	Questions I to	20 c	arry 2 marks each
1	Work out: $\frac{3}{5} + \frac{1}{5}$	2	Write 546 in Roman numerals.
3	Work out: 127 <u>x 3</u>	4	Given that PuQ = {1,2,3,4,5,6,7,8}, PnQ = {1,4,7} and P' = {5,6,8}, list the elements of set P.
5	Find the next number in the sequence: 1, 3, 7, 13, 21,	6	Using a ruler and a pair of compasses only, construct a line through point T parallel to line AB. B • T

7	Write the number whose standard form is 7.43 x 10 ²	8	Represent the number operation -5 + +7 on the number line below -5 + +7 on the number line below
9	Solve: 2a - 6 = 10	10	A packet of biscuits weighs 200 grammes. Calculate the total weight in kilogrammes of 30 packets of biscuits.
11	The drawings below show cards with numbers written on them. 4 5 6 7 8 9 The cards were then put in a bag.Find the probability that a card picked at random from the bag has a composite number.	12	Work out: 1001 two
13	A poultry farmer sells 30 eggs at sh 12,000. Find the cost of 25 eggs.	14	Round off 2498 to the nearest hundreds.

15	The weight of a teacher is 72 kg. The average weight of the teacher and three pupils is 50 kg. Calculate the total weight of the pupils.	16	Town M is South East of town V. Find the bearing of town V from town M.
17	A businesswoman borrowed sh 100,000 from a savings group which charged her an interest rate of 3% per month. Calculate the interest she paid after a period of six months.	18	Peter walked a distance of 2 km in 20 minutes. Find his speed in kilometers per hour.
19	Given that $m = 8$ and $n = 6$, find the value of $\sqrt{mn + 1}$.		Calculate the volume of the cylinder below (Use $\pi = \frac{22}{7}$).

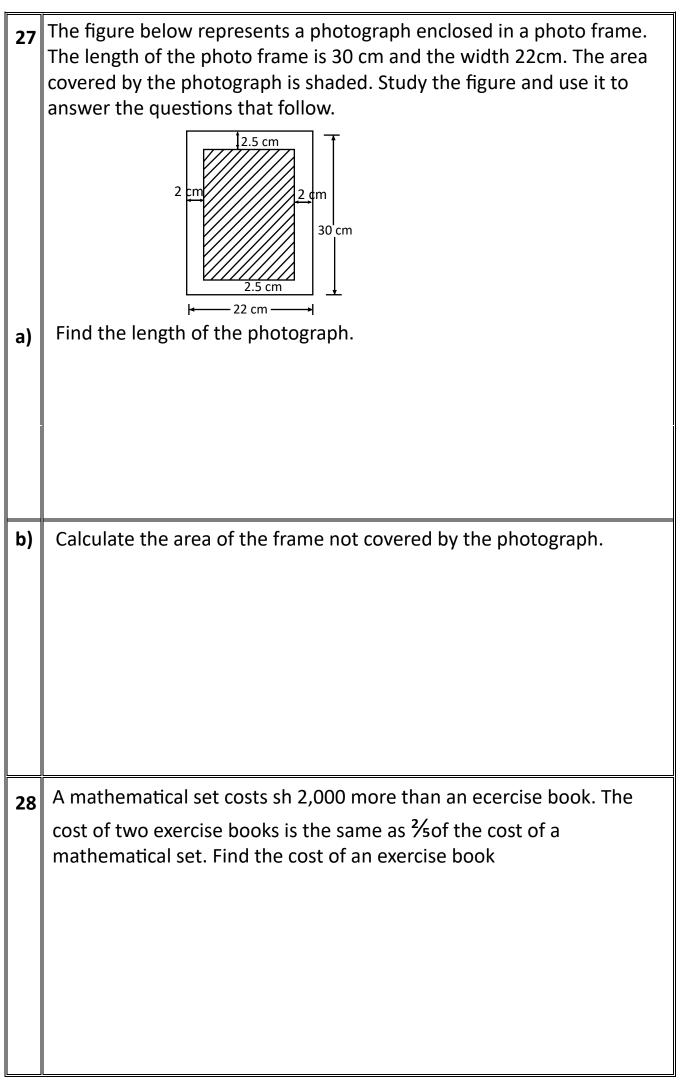
- In a village, 3 farmers grow both rice (R) and sunflower (S), 24 farmers grow rice and y farmers grow only sunnflower. 2y + 9 farmers grow none of the two crops.
- a) Use the given information to complete the venn diagram below.

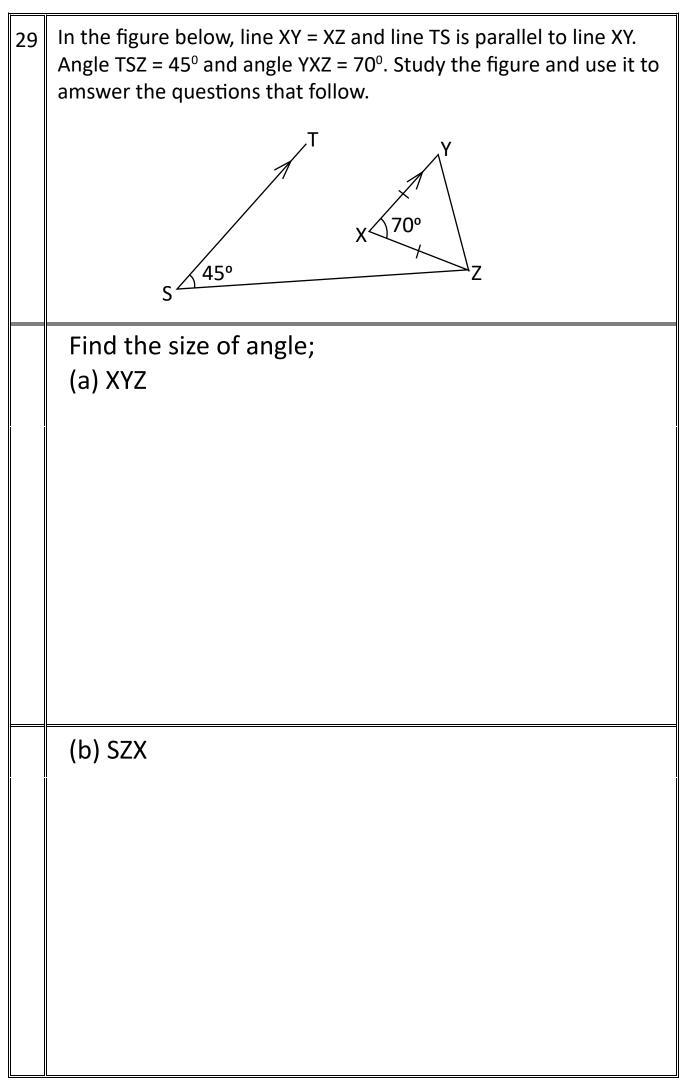


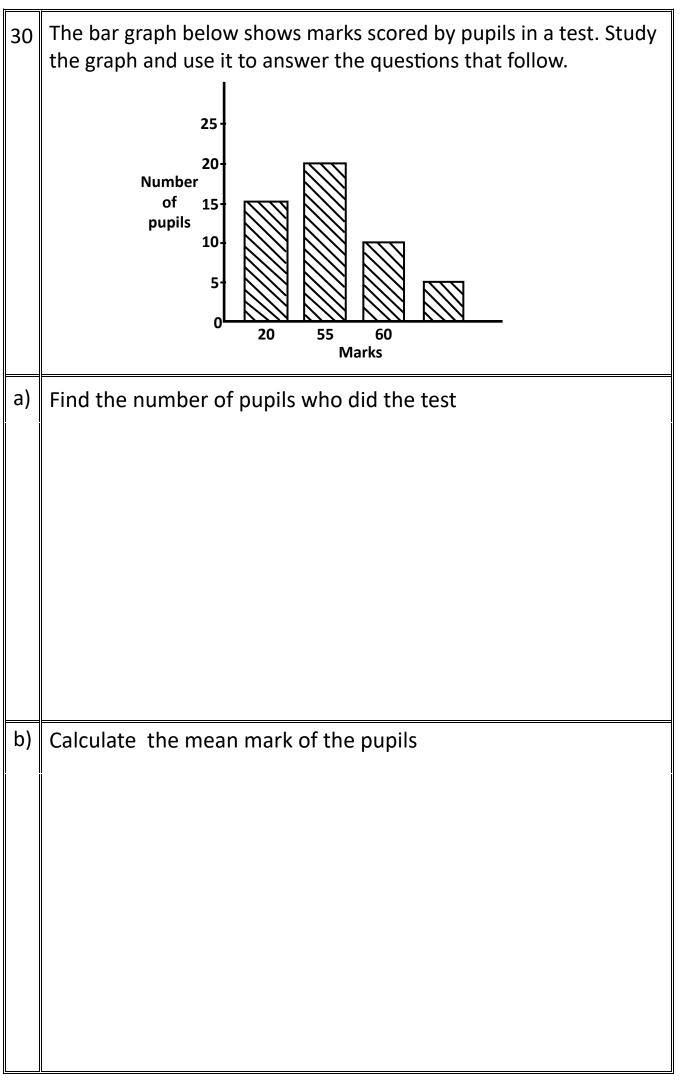


24	A motorist left his home at 8:40 a.m and travelled to town for 3 hours at an average speed of 64 km/h. He stayed in town for 30 minutes and then travelled back home			
	a) Calculate the distance from the motorist's home to the town			
b)	At what time did the motorist leave the town?			
c)	Calculate the speed at which the motorist travelled back if he reached home at 3:10 p.m			

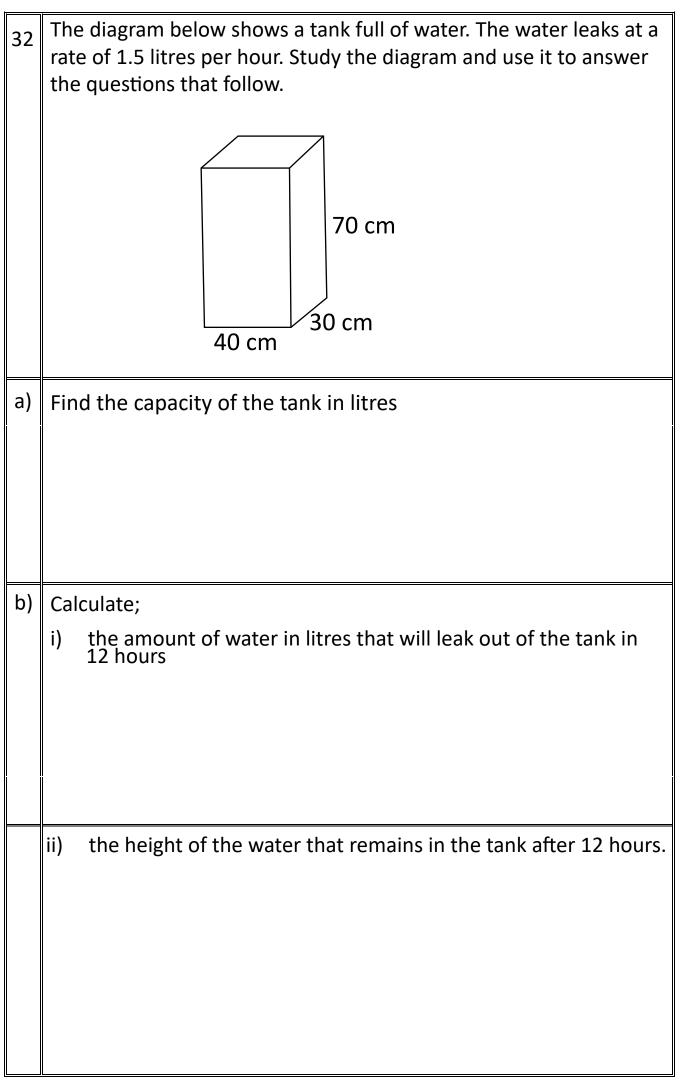
25	The sum of three consencutive counting numbers is 78. Find the
	largest number.
26	, , , , , , , , , , , , , , , , , , , ,
	ABC in which line AB = 7cm, AC = 6cm and Angle CAB = 45°
b)	Measure angle ACB
٥,	







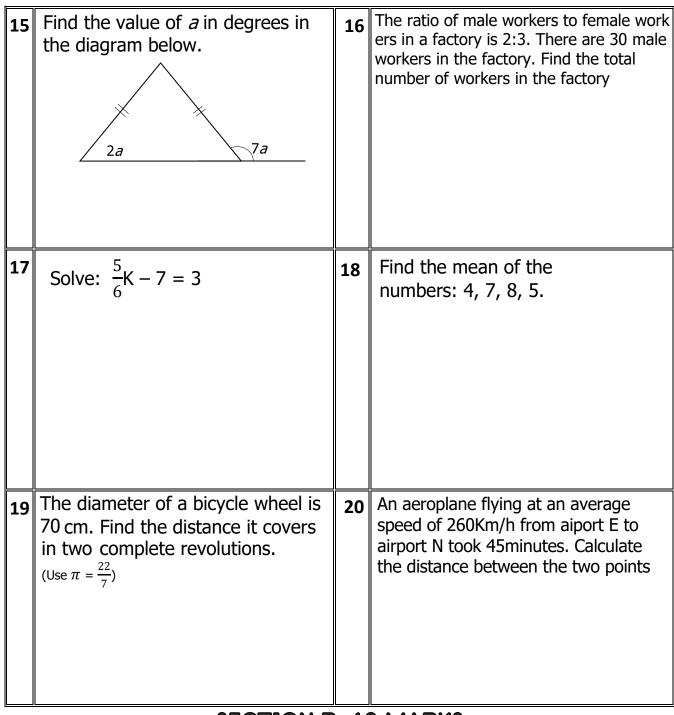
31	A company supplied text books to three schools; F, G and H in the ratio 4:6:5 respectively. School F received 72 books less than school G.		
	a) Find the number of text books supplied by the company		
b)	Calculate the number of books school H got.		
b)	Calculate the mean mark of the pupils		



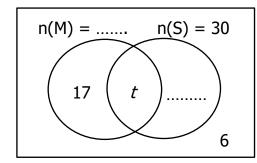
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I 	Questions I to 20 carry 2 marks each					
1	Work out: 473 + 312	2	Write 27,040 in words			
3	Circle all the triangular numbers in the list below. 4, 5, 6, 7, 8, 9, 10	4	Given that the subsets of set Q are; {m}, {k}, {m, k}, { }, find n(Q).			
5	Write 5,834 in standard form	6	A taxi left Kampala for Gulu at 10:00pm. The journey took 5 hours. What time did the taxi arrive in Gulu?			

7	Using a protractor and a ruler, draw an angle of 145° in the space below.	8	Given that $m = 5$, $n = 3$ and $r = 2$, find the value of $\frac{mn}{n-r}$
9	Change 9.85 kilogrammes into grammes.	10	A box contains 5 blue and 6 red pens. A pen is picked at random from the box. Find the probability that the pen picked is blue.
11	Solve: $3y = 5$ (finite 7)	12	Find the lowest common multiple (LCM) of 18 and 30.
13	Workout: 9.8 ÷ 0.07	14	Auma sold two cocks for sh 70,000 making a profit of sh 12,000. If both cocks cost the same price, find the price Auma bought each cock.



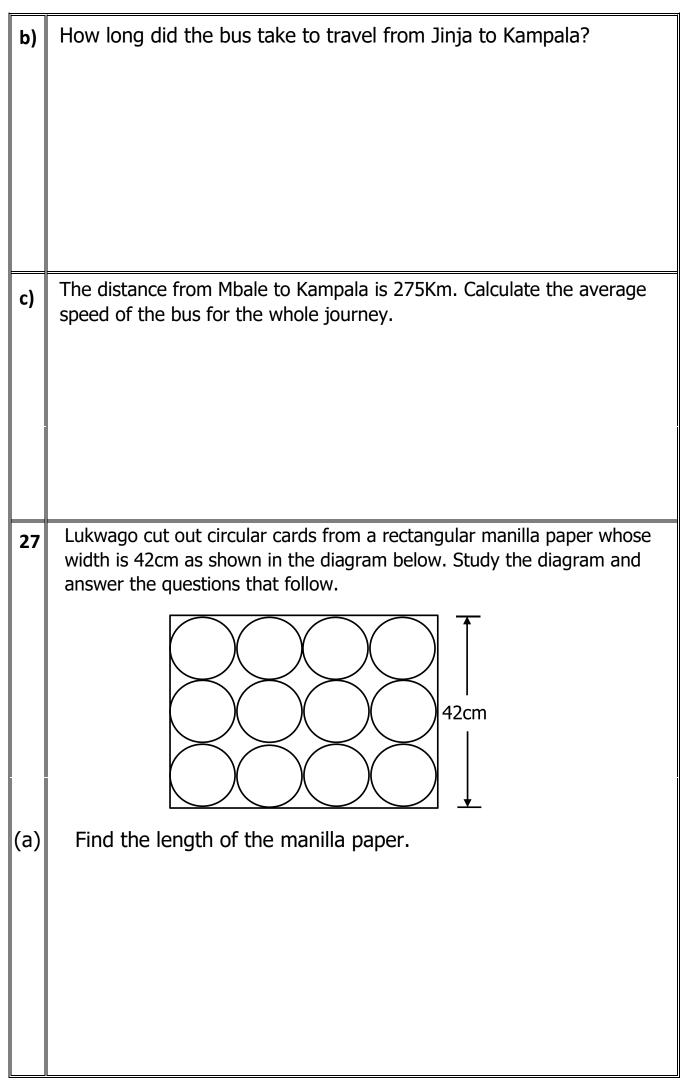
- In a class party, two types of drinks were served, soda (S) and mineral water (M). 30 pupils took soda and *t* pupils took both soda and mineral water, 6 pupils took neither of the drinks while 17 pupils took only mineral water. The number of pupils who took soda only was twice that of those who took both soda and mineral water.
 - (a) Use the given information to complete the Venn diagram below.



b)	Find the number of pupils who took both drinks.
c)	Calculate the total number of pupils in the class.
22	Convert 103 _{five} to base two.
23	The list below shows prices of different items in a certain shop. - 2 kg of sugar cost sh 6,800 - 500 g of posho cost sh 1,600 - 1 kg of beans cost sh 3,000 - 3 bars of soap cost sh 10,500 (a) How much money will Opio pay for 3 kg of sugar?

b)	Nakitto buys 1 kg of beans, 1 ½ kg of posho and 3 bars of soap. How much does she pay?
24	Kapere deposited sh 750,000 in a bank. The bank offers a simple interest at a rate of 18% per year. After some time, Kapere had an amount of sh 885,000 in the bank. (a) Find the interest Kapere earned.
b)	Calculate how long the money was in the bank.

25	Using a ruler and a pair of compasses only, (a) Construct triangle JKL where JK = 6.5cm, angle LJK = 30° and angle JKL = 105°.								
b)	Measu	re the length LK	cm						
26.	throug		anga and Jinja. Stud	ous from Mbale to Ka dy the table and use	-				
	an is it s	Town	Arrival time	Departure time					
		Mbale		09 00 hours					
		Tororo	09 30 hours	09 45 hours					
		Bugiri	10 25 hours	10 30 hours					
		Iganga	11 50 hours	12 00 hours					
-		Jinja 13 30 hours 13 40 hours							
		Kampala	14 30 hours						
	(a) Co	onvert the arrival tin	ne of the bus at Tor	oro into 12 hour clo	CK.				



(b)	Calculate the area of the pieces of the manilla paper that remained. (Use $\pi = \frac{22}{7}$)
28.	In a school, the fraction of the boys is $\frac{1}{5}$ more than that of girls. The school
	has 280 girls.
	(a) Find the fraction of the girls in the school.
(h)	Calculate the total number of pupils in the school
(b)	Calculate the total number of pupils in the school

29.	The interior angle sum of a regular polygon is 1800°. (a) Calculate the number of sides of the polygon.
b)	Find the size of each exterior angle of the polygon.
30.	A water tank with a capacity of 4,800 litres was $\frac{3}{4}$ full. Some of the water was sold using 20 - litre jerrycans at sh 200 each. After selling the water, of it remained. (a) Find in litres, the amount of water which was sold.

b)	Calculate t	he a	mour	nt of	mone	ey e	arne	d fr	om t	he	sale	of t	the w	ater.	
31.	A book costs than a penci						_			-					
	of a book.								P 5 5		- p		.,		
32.	The bar-grap	s. St						-	-						
	follow.	30													
													-		
	Number	20—											-		
	of pupils														
		10													
		0	SST		ENG	Sub	MTC pjects		SCI		RE	<u> </u>			

(a)	Which subject is liked by fewer pupils?
(b)	How many pupils liked Mathematics best?
(c)	Calculate the total number of pupils in the class.
(d)	Find the percentage of pupils who liked English best.

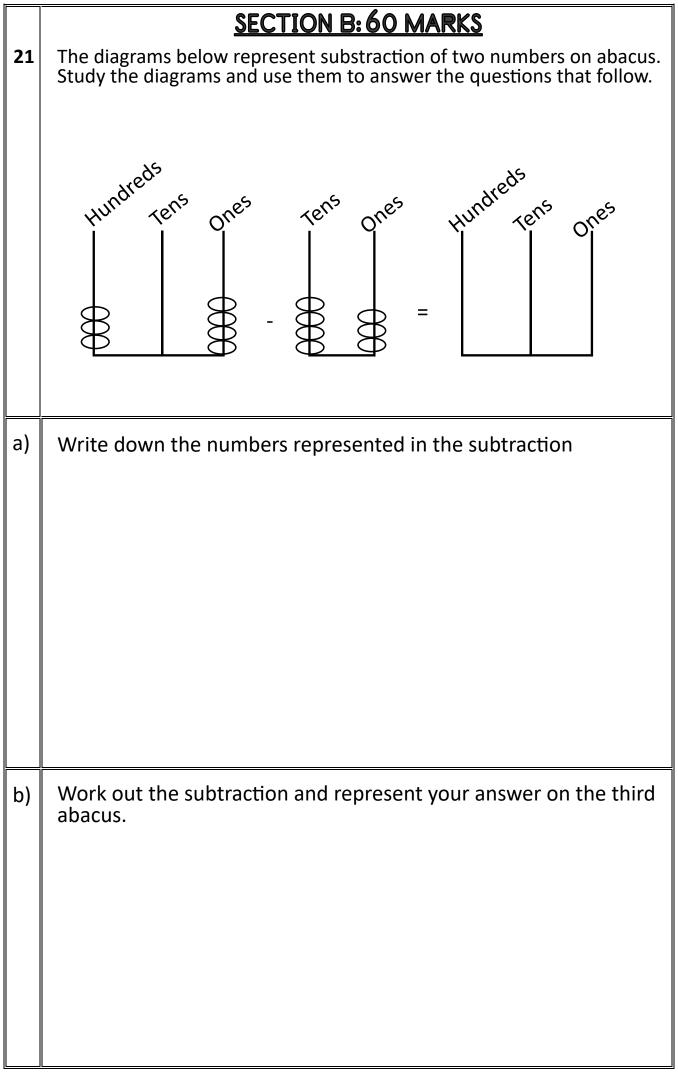
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SECTION A: 40 MARKS

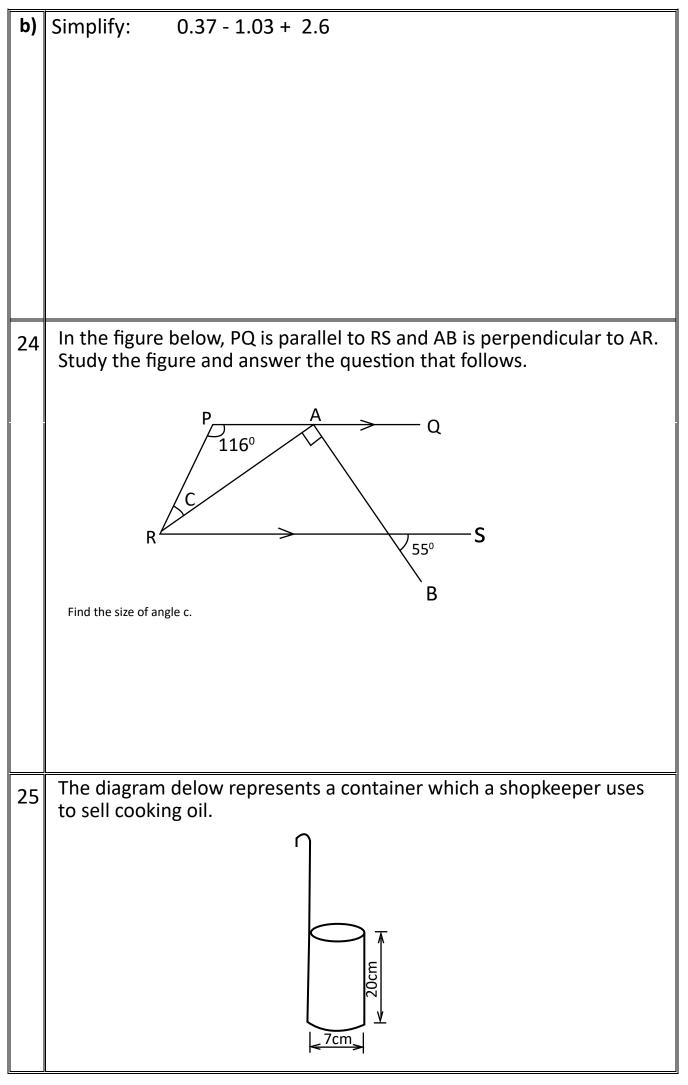
h	Questions I to	20 c	arry 2 marks each
1	Work out:	2	Write XCVIIin Arabic numerals.
	5 3 4		
	<u> 123</u>		
3	Simplify: 3 <i>p</i> + <i>p</i> - 2 <i>p</i>	4	In the Venn diagram below, shade the region (SUT)'
			E T
5	Round off 53.86 to the nearest tenth.	6	Using a pair of compasses, a pencil and a ruler only, construct a perpendi cular from point <i>C</i> onto the line segme nt <i>AB</i> below •C

7	Change 250 grammes into kilo grammes.	8	Given that 景 reperesents 26 girls in a class and 景 represents 20 boys in the class. find the total number of pupils represented by 景 景 大
9	Solve: 3 + m - 2(finite 5)	10	In the diagram below, find the value of b in degrees. b + 20°
11	Find the next number in the sequence: 58, 33, 17, 8,	12	Calculate the speed of a motorist who covered a distance of 210 kilometres in 2 1/2 hours.
13	Change 8 _{ten} to binary system	14	Find the smallest number that can be divided by 8 or 12 and leaves 5 as the remainder.

15	A teacher deposited sh 72,000 in a bank. After one year, the teacher earned a simple interest of shs 3,600. Calculate the simple interest rate of the bank.	16	Study the coordinate grapgh below and use it to answer the questions that follow:
а)	Write the coordinates of point G .	b)	Plot the point H (-3,0) on the coordinate graph.
17	A train left station <i>K</i> at 11 38 hours and reached station <i>M</i> at 14 27 hours. How long did the train take to travel from <i>K</i> to <i>M</i> ?	18	Find the solution set for $k + 2 < 6$.
19	A shopkeeper bought 19 plates at sh 34,200. At what price must the shopkeeper sell each plate in order to raise a profit of sh 3,800?	20	Mawa built a circular hut of circumfrence 66 metres using poles. The poles were fixed at intervals of 1.5 metres. calculate the number of poles he used.

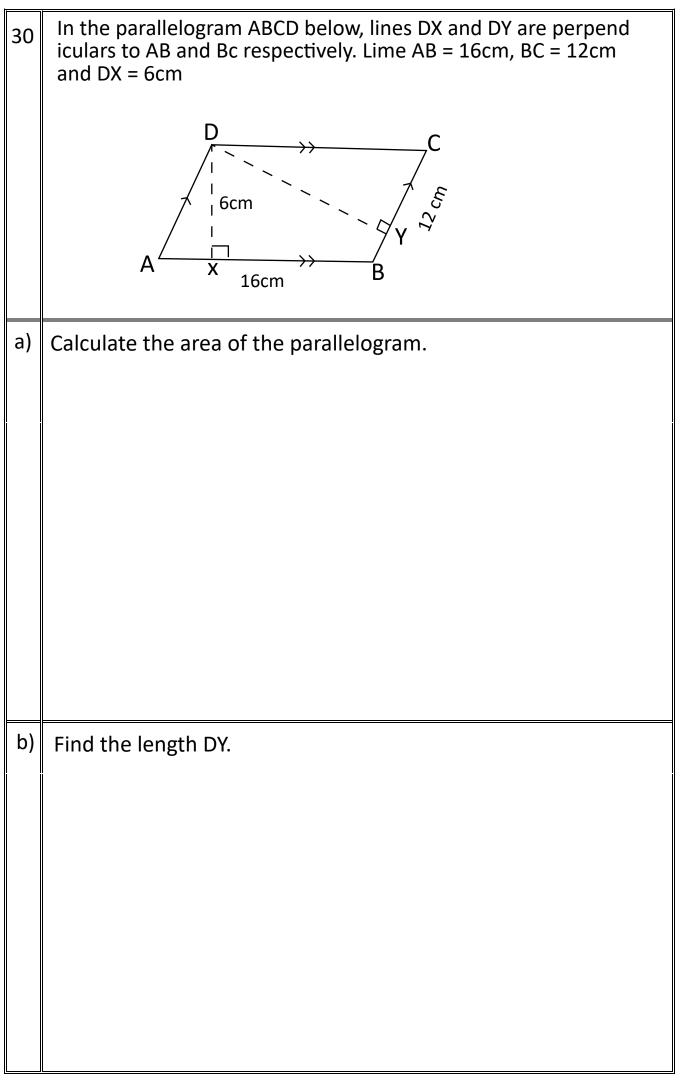


22	A class of 68 pupils was served matooke (M) and rice (R). 30 pupils ate matooke and 2h ate rice, 7 pupils ate both matooke and rice while 9 pupils did not eat either of the foods
	(a) Use the given information to complete the Venn diagram below.
	n(£) = 68 $n(M) = 30 n(R) = 2h$ 7
a)	How many pupils ate rice only?
23	Work out: 2.4x0.5 0.12



		_	shopkeeper sold 15.4 s of cooking oil were s			
26			vith sh 30,000. She boaying for all the items,	_		
	Con	nplete the table				
		Item	Unit cost	Total cost		
		2 kg of sugar	sh 4,000 per kg	sh		
		3 loaves of bread	sh per loaf	sh		
		litres of milk	sh 1,50 per litre	sh 2,250		
		Total Ex	rpenditure	sh		
27 a)	A bus that left town A at 11:30 a.m. moving at a speed of 60 km/h reached town B at 1:30 p.m. The bus stayed at town B for 40 minutes. It then continued to town C and covered a distance of 96 kilometres at a speed of 64 km/h. Calculate the total distance covered by the bus from town A to town C					

b)	At what time did t	he bus re	each to	wn C?		
	The table shoes the Use the information			•		
	Marks	40	m	60	70	
	Number of pupils	2	6	3	3	
	If the mean mark of	pupils w	as 55, f	ind the v	value of	m.
29	The number of goats of 4:3:5 respectively. Find the number of e	There are	e 40 mor	e sheep t	hat goats	



31	In a market, the cost of a pawpaw is sh 800 more than the cost of a mango. A mango costs two thirds of the cost of a pineapple. the total cost of the three fruits is sh 4,300. Calculate the cost of a pineapple.
32	A boatman sailed from island P on a bearing of 300° to island Q for a distance of 56 km. The boatman then left isalnd Q and sailed on a bearing of 230° to island R for a distance of 40 km. (a) Using a scale of 1 centimetre to represent 8 kilometers, draw an accurate diagram to show the route of the boatman.
b)	Find the bearing of island R from island P.

CANDIDATE'S INFORMATION						
Index number :						
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SECTION A: 40 MARKS

	Questions I to	20 c	arry 2 marks each
	Workout: 36 ÷ 3		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 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 =	Ю	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.	工	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.

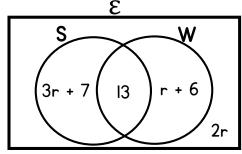
15	The following heights of six children were recorded at a health centre: 53cm, 64cm, 59cm, 5lcm, 63cm and 6lcm. Find the median height of the children.	16	Given that I US dollar (\$) costs Uganda shillings (Ug.sh) 3,672 and I Kenya shilling (K.sh) costs Ug.sh 36, find the cost of I US dollar in Kenya 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.
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.

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,

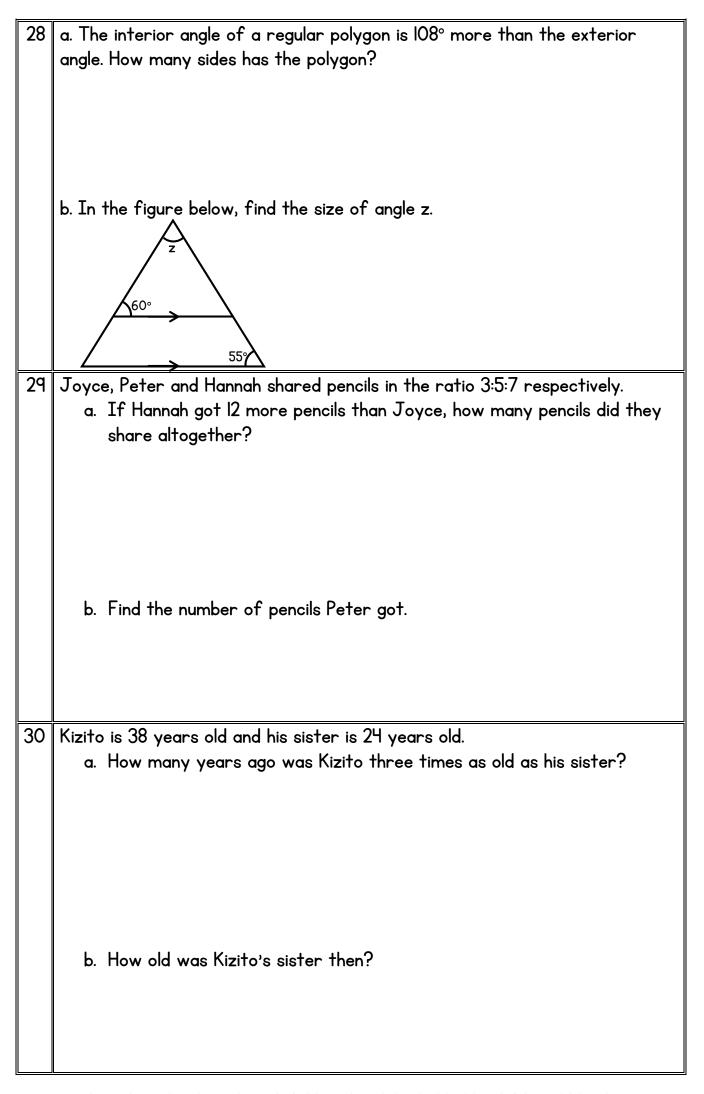
(i). find the value of r

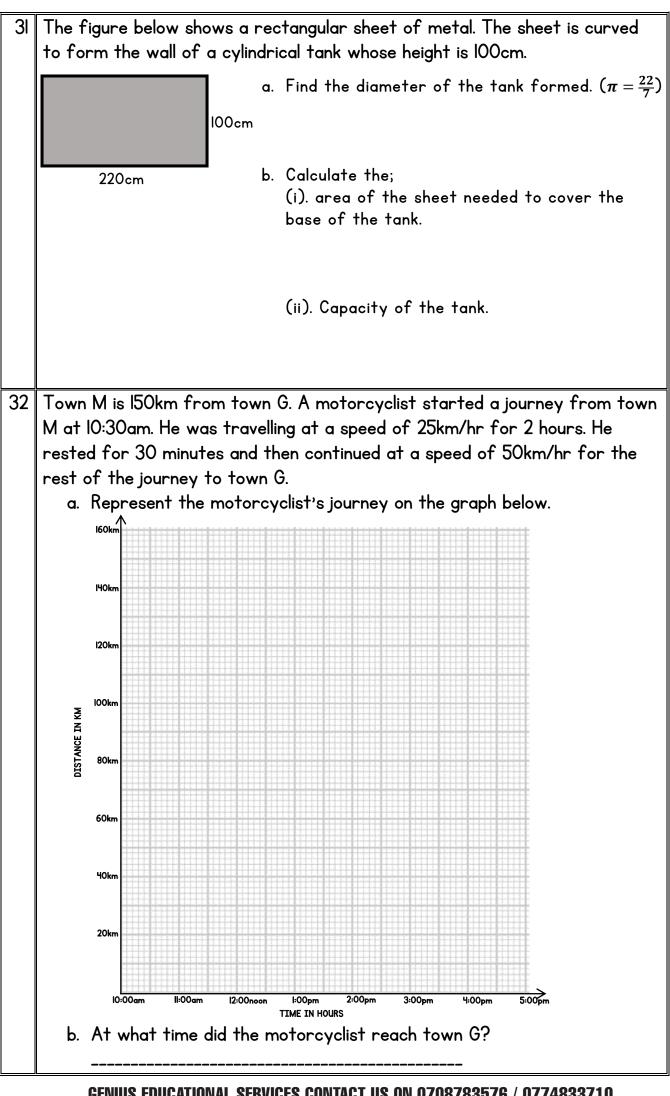


(ii). find the total number of guests who attended the party.

	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: $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{14} + 2\frac{7}{15}$
23	a. Write the place value of 2 and 1 in $20l_{three}$
	b. Workout: $42_{five} \times 2l_{five}$
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.

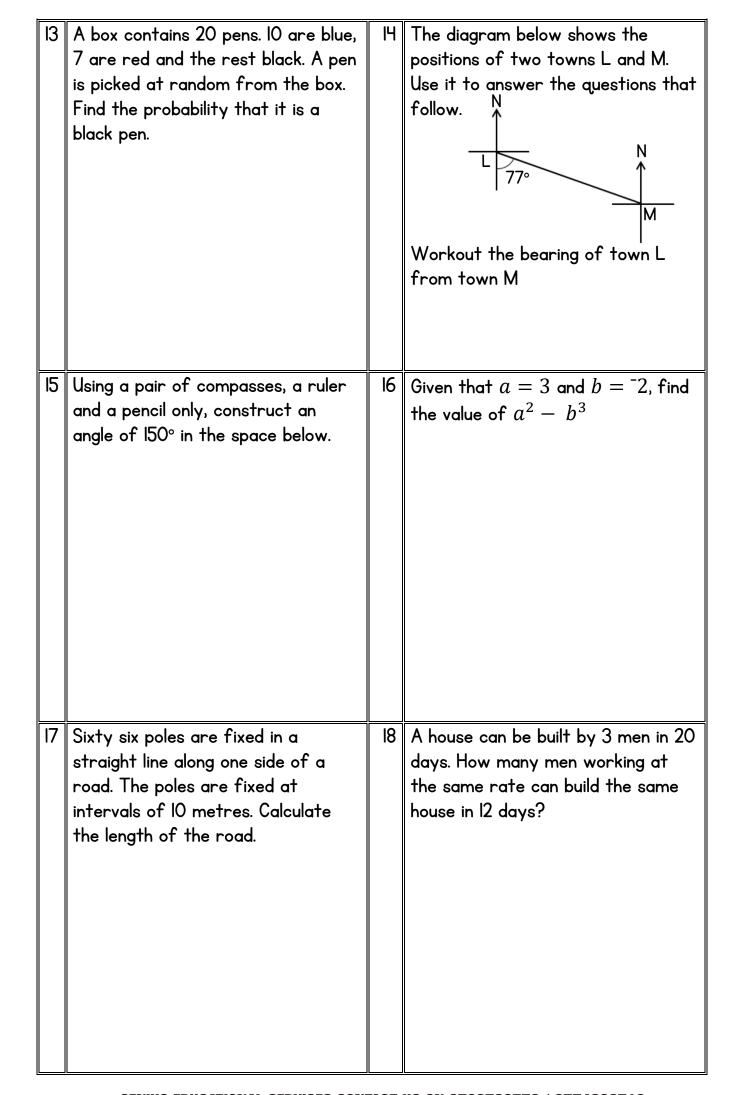
25	Study and complete Mukasa's shopping table below:							
	Item	Quantity	Unit cost	Amount				
	Sugar	3kg	sh per kg	sh. 14,400				
	Rice	kg	sh. 5,000 per kg	sh. 2,500				
	Milk	250 ml	sh. 3,000 per litre	sh				
	Biscuits	2 packets	sh per packet	sh				
		Total exp	enditure	sh. 29,650				
26	a. Using a pair of compasses and a ruler only, construct a rhombus UVXY whose diagonals are IHcm and IOcm.							
	b. Measure	the length VX	cm					
27	group, the a	iverage weight l	r boys is 56kg. When two becomes 52kg. The sixth b ght of the sixth boy.	, <u>.</u>				



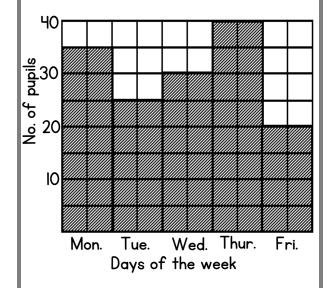


I	CANDIDATE'S INFOR	MATION
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1	District name :	
-	<u>SECTION A: 40 MARI</u>	<u>. – – – – – – – – – </u>
I	Workout: 32 × 3	50,019 in words.
2	2	
3	3 Workout: 2 – 5 (finite 7) 4 Find the sequence	e next number in the e:
	-11 ,	-8 , -5 , -2 ,
5		nat set N = {c , t , p}, list all sets in N.

7	Find the number which has been expanded below: $(3 \times 10^2) + (5 \times 10^{-1})$	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.	10	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.



In the graph below shows the number of pupils present in a class of 40 pupils in a certain week. Study it and answer the questions that follow.



Find the number of pupils who

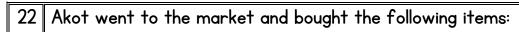
were absent on Tuesday.

Find the least number of sweets when divided among 8 boys or 6 girls equally, leaves 2 sweets as remainder.

SECTION B: 60 MARKS

21 a. Workout:

b. Given that $34_{t} = 112_{four}$. Find the value of t.



3 litres of milk at sh. 2,400 per litre

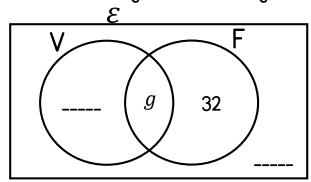
250g of salt at sh. 2,000 per kg

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?

- In a class, 32 pupils play football (F) only, g play both volleyball (V) and football, (2g-10) play volleyball but not football while (g-2) play neither of the two games.
 - a. Complete the Venn diagram below using the above information.



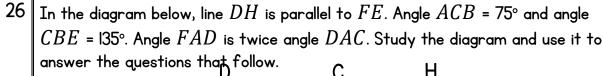
b. Given that 62 pupils play one game only, find the value of g

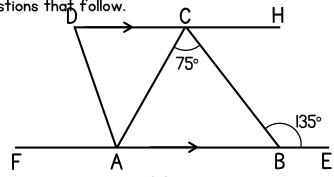
c. Calculate the number of pupils in the class.

24	A school bus taking pupils to a Game park covered 75% of its journey in $1\frac{1}{2}$
	hours. The bus travelled at a steady speed of 80 kilometres per hour.
	Find how far the school is from the game park.

a. Solve the equation:
$$\frac{3}{5}n + 6 = 2 + n$$

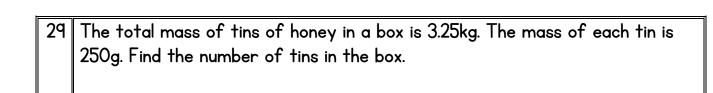
b. Solve the inequality:
$$9 - 2k > k + 3$$



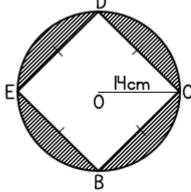


- a. Calculate the size of angle DAC
- b. Find the size of angle ADC.

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.						
	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 = 7cm, angle ABC = BAD = 60° and AD =						
	BC = 3.5cm.						
	b. Measure the length DC cm						
	D. Micadai C The length Do Off						



The diagram below shows a square BCDE enclosed in a circle with centre 0 and radius I4cm. Parts of the circle are shaded as shown. Study the diagram and use it to answer the questions that follow.



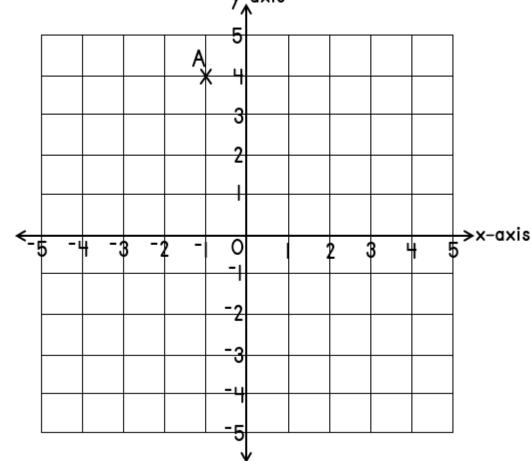
a. Calculate the area of the circle. $\left(Use\ \pi=\frac{22}{7}\right)$

b. Find the area of the shaded part.

a. How many pupils are in the class?

are day scholars.

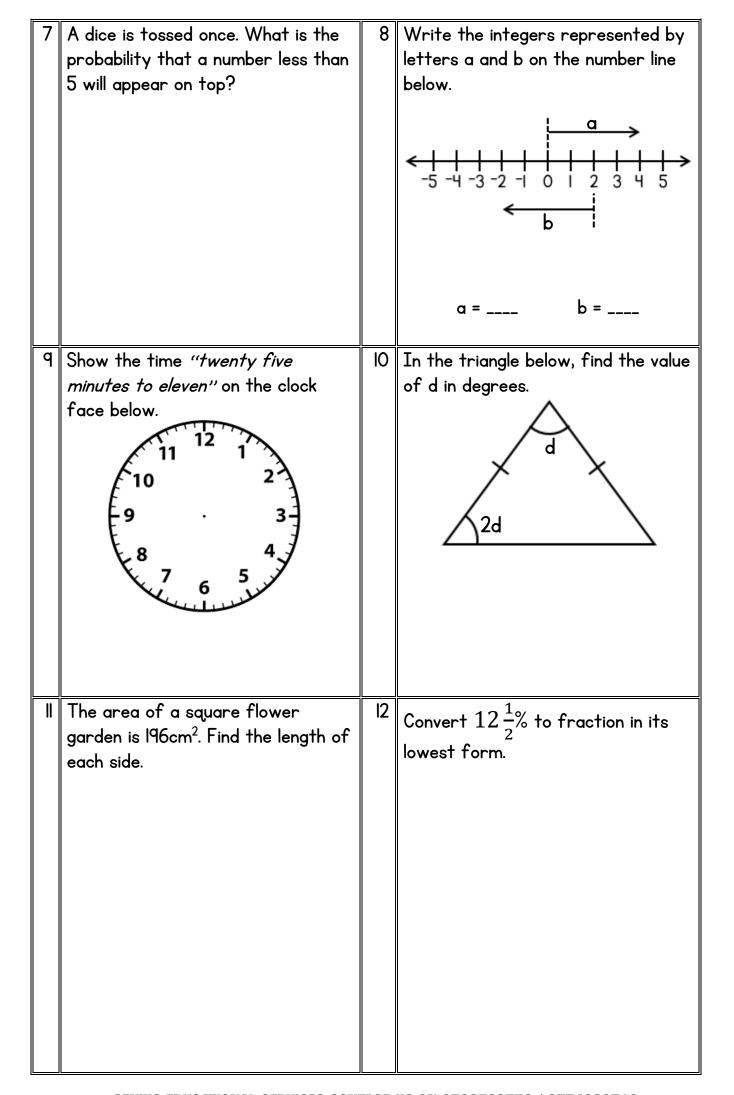
- b. Find the number of girls who are borders.
- 32 Study the coordinate graph below and use it to answer the questions that follow. y-axis



- a. Write the coordinates of point A.
- b. Plot the points $B(^+2, ^+2)$ and $C(^-I, ^-4)$ 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.

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SECTION A: 40 MARKS								
I	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 $n(P\cap Q)$, \mathcal{E} $\begin{array}{c c} & & & \\ \hline & & \\ \hline & & & \\ \hline & & & \\ \hline & & & $					
5	Without dividing, show which of the numbers I40 and 5070 is divisible by 3.	6	Workout: 110 two X 11 two					



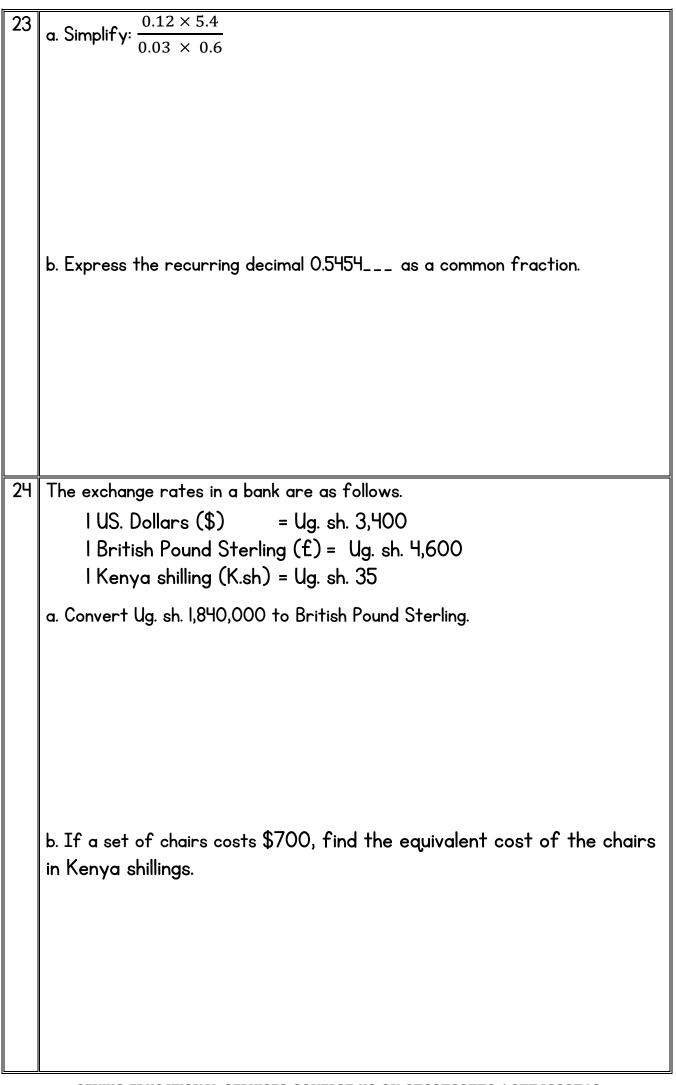
13	The prime factors of 12 and 90 are given below; $12 = 2^2 \times 3$ $90 = 2 \times 3^2 \times 5$ Use the given prime factors above to find the Lowest Common Multiple (LCM) of 12 and 90	Н	A wire of length 161 metres was shared by some boys. The average length of the wire each boy got was 23 metres. Find the number of boys who shared the wire.
15	Find the length of the arc DK in the diagram below. ($use \pi = \frac{22}{7}$)	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 I2cm². Calculate the volume of the cuboid.

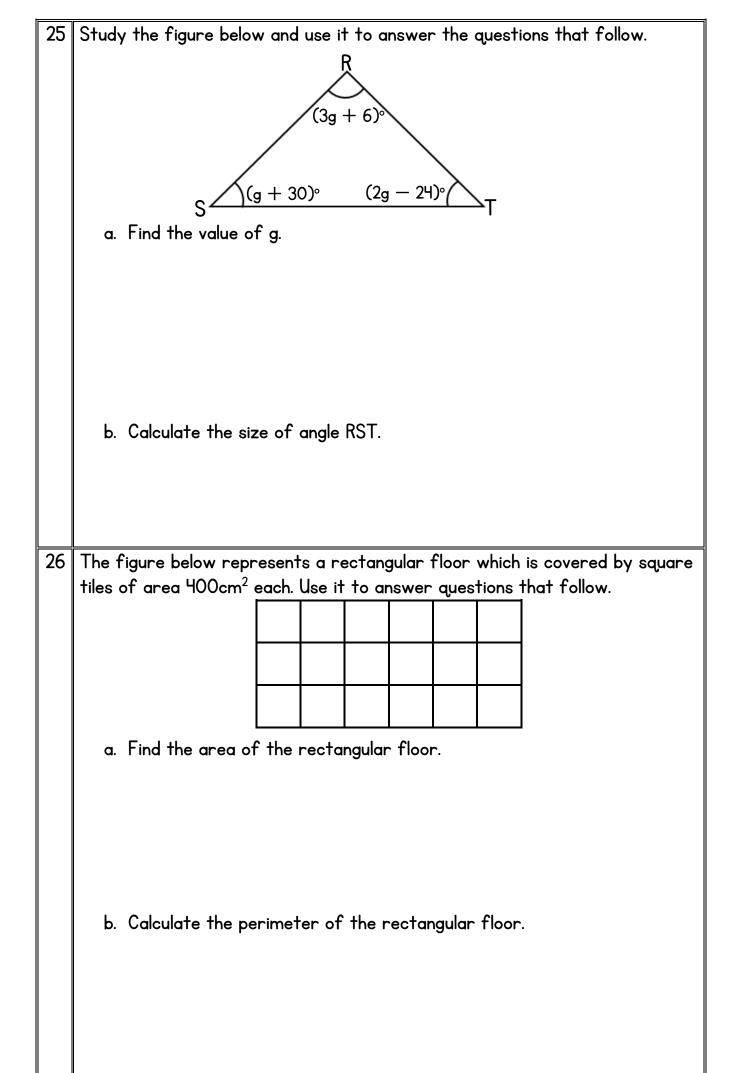
i				
19	Using a ruler, a pencil and a pair of	20	Hakim is three times as old as	
	compasses only, construct an angle		Lucky. Their total age is 52 years.	
	of 135° in the space below.		How old is Lucky?	
SECTION B: 60 MARKS				
21	In a class of 41 pupils, 30 play foot	ball (F), t play netball (N), 5 play both	
	football and netball and 3 pupils do	not p	play any of the two games.	
	a. Use the above information to	com	plete the Venn diagram below.	
			٦ - ا	
	n(F) = 30 $n(N) =$	†		
	(5)			
		- /		

b. Find the product of the value of 2 and the value of 8 in the number 4820.

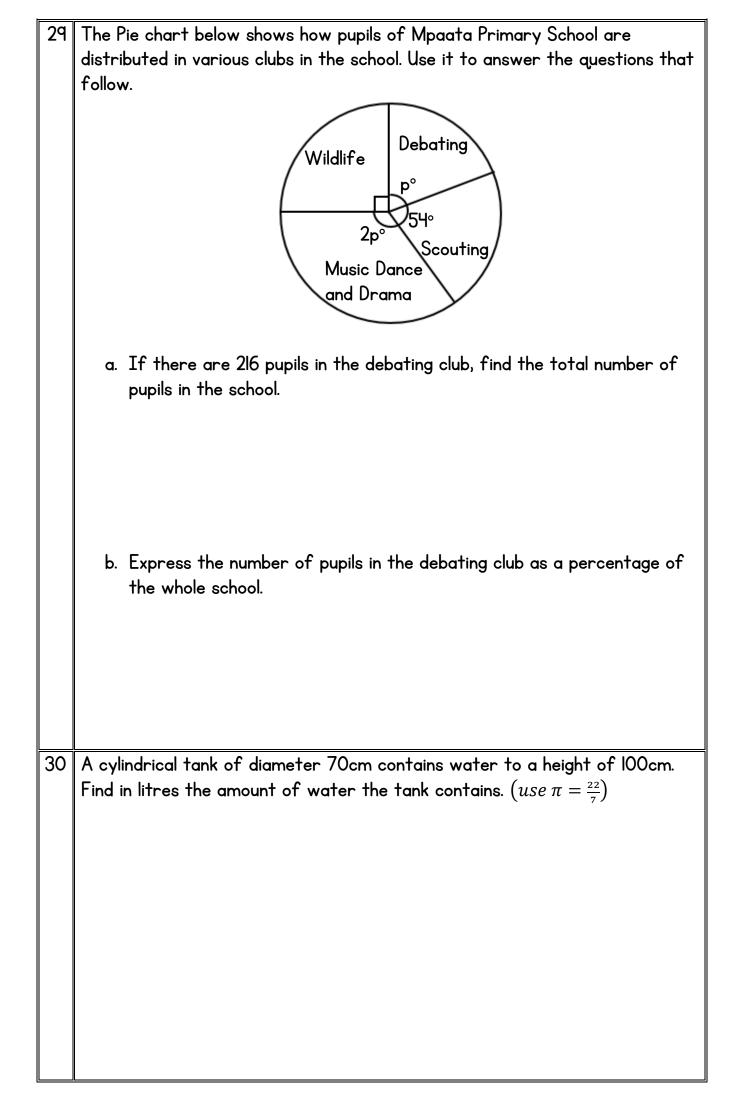
22

a. Write 955 in Roman numerals.





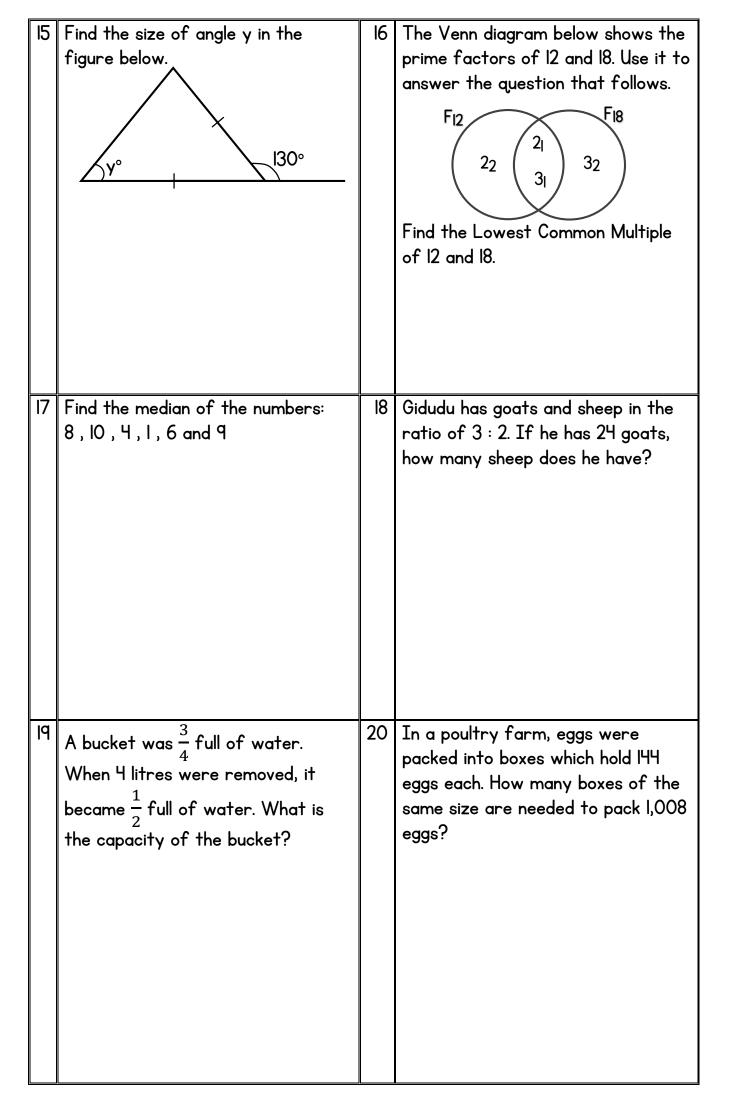
27	A taxi driver left town A for town B at 10:30a.m driving at a speed of 80 kilometres per hour. The driver reached town B at 2:00p.m. a. Calculate the time taken by the driver to reach town B.
	b. Find the distance between town A and town B.
28	Hajati bought 120 shares from a village SACCO at a simple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



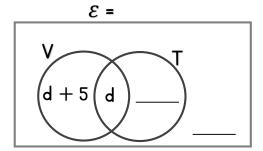
31	a. Given that $m=3k$ and $k=5$, find the value of $2k+6m$ b. Write the solution set for the inequality: $6 < x < 10$
32	A school library is 70 metres east of the main hall. The staffroom is 60 metres from the library on a bearing of 240°. a. Using a scale of Icm represent IOmetres, show the three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

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_	SECTION A:	: 40	<u>MARKS</u>
1	Workout: 124 — 45	2	Write in figures: Eighty thousand, ten
3	Simplify: $18x - 5(3x + 7)$	4	Given that set K = {g, m, v, z}, find the number of subsets in set K.
ō	Workout -7 — -3 on the number line below. <	6	Find the sum of the 5 th and the 8 th prime numbers.

7	14 2	8	A birthday party started at
'	Workout: $\frac{14}{15} \div \frac{2}{5}$		4:30pm and lasted $2\frac{3}{4}$ hours. At
			what time did the party end?
			' '
9	Show all the lines of folding	Ю	•
	symmetry in the figure below.		32,800 making a profit of sh. 1,200.
			What was the cost price of the pair of shoes?
			F ****
	7		
	In a car park, there are 192 cars. The probability that a car picked	12	How many packets of 200 grams can be got from 2.6 kilograms of
	at random from the park is made		salt?
	in Japan is $\frac{5}{8}$. How many cars are		
	not made in Japan?		
	'		
13	Given that $a = -2$, $b = 3$ and $c = 4$,	14	Workout: 110 l _{two} + 11 l _{two}
	find the value of $b(a^2 + c)$		



- 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.



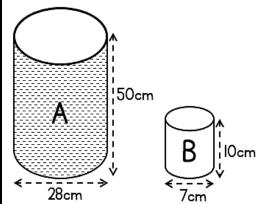
b. If 27 pupils play volleyball altogether, find the value of d.

- 22 a. What number has been expanded below? $(6 \times 10^3) + (2 \times 10^1) + (7 \times 10^0) + (3 \times 10^{-2})$
 - b. Workout: $(8.5 \times 14) + (8.5 \times 16)$
- The table below shows the rate at which different currencies were sold and bought in a commercial bank during the month of September. Use it to answer questions that follow.

Currency	Buying in Ug. Shs	Selling in Ug. Shs
I US dollar (\$)	3,600	3,650
l Euro €	4,000	4,020
l Rwandan franc	4.0	5.0

- a. How many Euros did Musa get for Ug. Shs. 603,000?
- b. Amina came from Rwanda with 109,500 Rwandan Francs and exchanged them for US dollars. How many US dollars did she get from the bank?

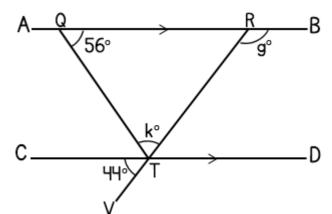
Betty filled container A below with drinking water. She served visitors with the water using cups each of size B shown in the diagram.



Find the total number of full cups of water she served the visitors. (use $\pi = \frac{22}{7}$)

- A fruit seller sold the following number of mangoes in six days. 60, 35, 40, 28, 42 and 35
 - a. What is the modal number of mangoes sold?
 - b. Workout the mean number of mangoes sold.
 - c. By the end of the seventh day, the mean number of mangoes sold was 44. How many mangoes were sold on the seventh day?

In the figure below, line AB is parallel to CD. Angle CTV = 44° and angle TQR = 56°. Study it and use it to answer the questions that follow.



Find the size of; a. angle k

b. angle g

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.

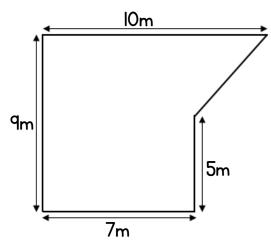
Town	Arrival	Departure
R		9:00a.m
Q	9:30a.m	9:42a.m
S	10:35a.m	11:10a.m
Р	l:30p.m	

- 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.

- 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 much money did Aguti sell the radio?



a. Calculate the area of the figure.

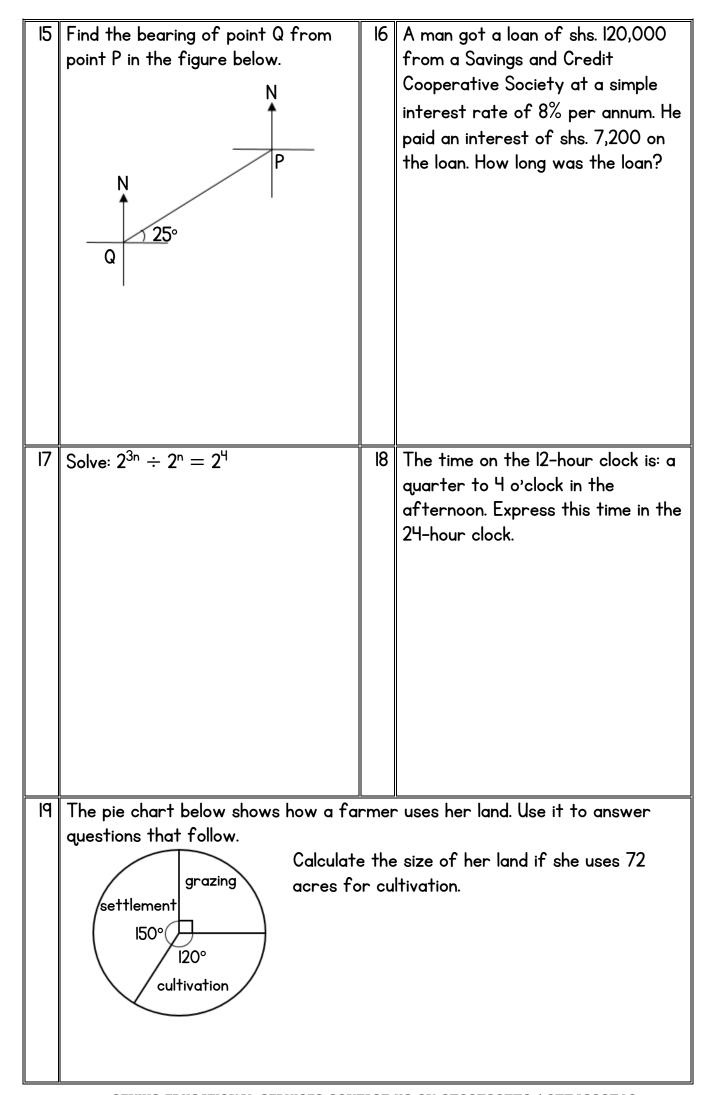
b. Workout the perimeter of the figure.

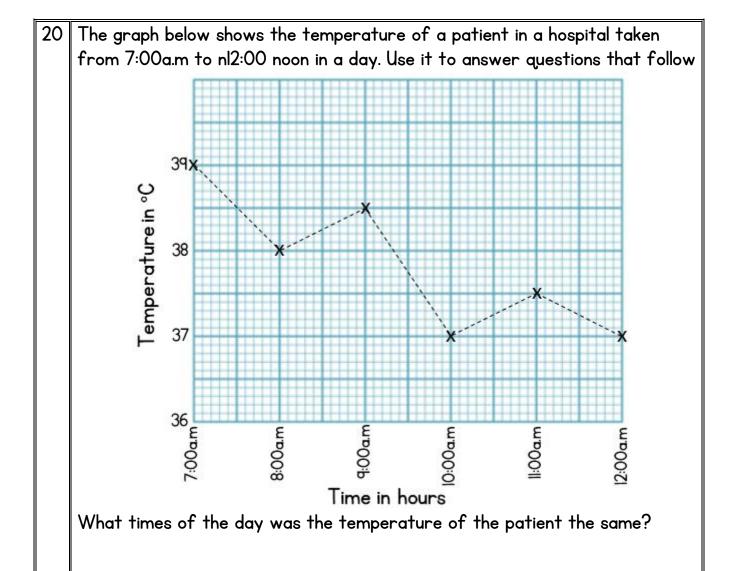
Two taps F and E are connected to a water tank. Tap F can fill the tank in 2 hours while tap E can empty it in 3 hours. One day when the tank was $\frac{1}{3}$ full of water, the taps were opened at the same time. How long did it take to fill the tank?

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 lcm 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.

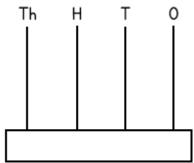
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Index number :		
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I District name :		
SECTION A: 40 MARKS		
Workout: 14 + 53 2 Write 99,040 in	n words.	
3 Given that $K = \{1, 2, 3, 4, 5\}$ and $4 \times 1 \times $	3	
3 Given that $K = \{1, 2, 3, 4, 5\}$ and $M = \{2, 4, 6, 8\}$. Find $n(K \cup M)$. Workout: $\frac{1}{6} \times \frac{1}{6} \times$	$\overline{4}$	
5 Simplify: 5ab - 2xy - ab + 7xy 6 Find the next no sequence:	umber in the	
	ın əq	
	14 , 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?
9	The mass of a packet of coffee is	10	Workout: 4 2 five
	kg. What is this mass in grams?		Ч I 2 _{five} — I 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 9.85×10^3	Ξ'	A cyclist covers 70km in $2\frac{1}{2}$ hours. How long will he take to cover 21km at the same speed?

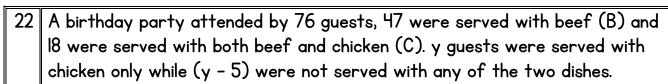




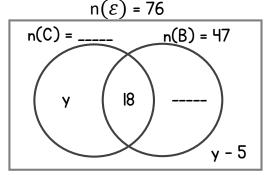
21 a. Draw beads to show the number 4,502 on the abacus below.



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



a. Use the information above to complete the Venn diagram below.



b. Find the value of y

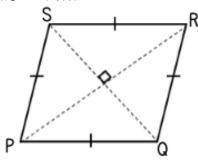
c. Find the number of guests who were served with chicken.

23 a. Using a ruler, pencil and a pair of compasses only;

i. Construct a parallelogram ABCD such that line AB = 7cm, BC = 5cm and angle ABC = 120°

- ii. Drop a perpendicular from D to meet AB at M.
- b. Measure the line DM in cm.

24	The diagram below shows a rhombus PQRS. The diagonals $PR = 24$ cm an
	QS = 10cm.



a. Calculate the area of the rhombus.

b. Find the perimeter of the rhombus.

25 a. Workout:
$$\frac{3.9 + 3.6}{0.06 \times 0.6}$$

b. Simplify: $3\frac{1}{2} \div 2\frac{1}{2} \times 2\frac{2}{5}$

26 Apio bought the following items from a market.

2 kg of rice at shs. 3,200 per kg.

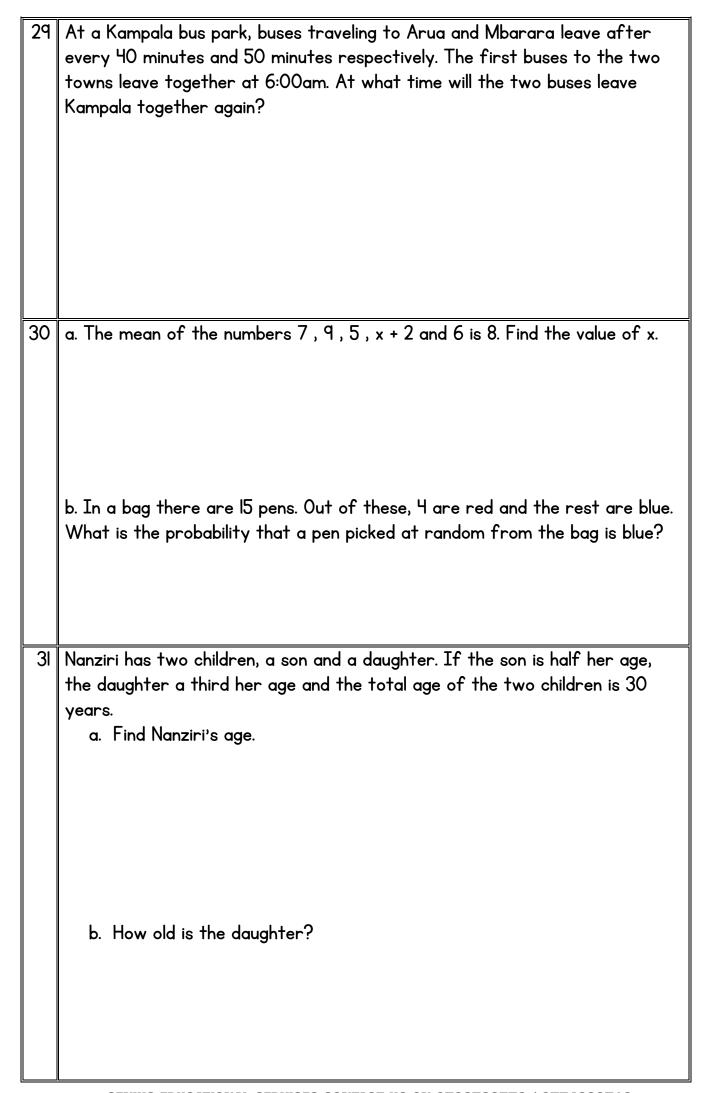
 $1\frac{1}{2}$ kg of meat at shs. 8,000 per kg.

500g of salt at shs. I,400 per kg.

A sacket of cooking oil at shs. 1,750.

How much money did she spend altogether?

ī									
27	The timetable be	low shows how a pupil	spent one Saturday.	Use it to answer					
	questions that fo		T .	,					
		Time	Activity						
		7:00am - 10:30am	digging						
		10:45am - 12:45pm	washing lunch and resting						
		1:00pm - 2:45pm							
		3:00pm - 4:30pm							
		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 United State Ksh I = Ug.sh 30 US\$ I = Ug.sh 2,58	te for Kenya shillings (s Dollars (US\$) to Uga 30 United States dollars v	nda shillings are shov	vn below.					
b. If the cost of a new bicycle is 90 United States dollars, How much would this be in Uganda Shillings?									



32	A school wants to fence a circular flower garden of diameter I4cm using poles placed at intervals of 80cm.										
	a. How many poles are needed to fence the flower garden? $\left(use \ \pi = \frac{22}{7}\right)$										
	b. If each pole costs shs. 3,000, how much money will the school spend on the poles?										

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ı	District name :									
<u>L</u>				<u> </u>						
	SECTION A	<u>: 7(</u>	MAR	<u>CA3</u>						
١	Workout: 22 × 4	2	What is below?		er ho	as be	en expanded			
			below:		000	+ 60	00 + 8			
3	Write XCIX in Hindu-Arabic numerals.	4	Given t				3,5,7,9} ,7}			
					(- / -	,, -	, . ,			
5	Round off 12,962 to the nearest thousands.	6	Find the	ne valu	ue of	x ir	the diagram			
	mousulus.		Delow.	\						
					3x9	\	/ ,2x°			
						•	<u>, </u>			

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	Ю	Workout: $\frac{2}{3} + \frac{1}{4}$
=	What morning time is shown on the clock face below? 11 12 1 10 2 11 12 1 10 3 10 3 10 4 11 15 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1	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?	Ξ'	Using a ruler, a pencil and pair of compasses only, bisect the angle given below.

15	Workout: 2 - 6 (mo	d 7)	16	Given t	hat $a=\frac{1}{2}$	$\frac{1}{3}$ and $b=$	$\frac{1}{2}$. Find
				the valu		3	9
					b		
17	The Lowest Commor	n Multiple	18	Medi ha	as 30kg of	f sugar to	be
	(LCM) of two number	ers is 72 o	and	11	_	ckets. Hov	
	their Greatest Comr (GCF) is 6. If one of		ll l	II	$\frac{4}{4}$ will he g		,
	is 24. Find the second						
19	Trees were planted	alona a st	raiaht ro	<u> </u> ad 305 m	etres lond	a. If the t	rees
	were planted 5 metr	_	_			_	_
20	TI 1 1 1	11	ı c	1.11	1.1 .	0	
	The bar graph shows from Monday to Frid		_			•	arm
	•	50	<u> </u>				
		40					
		\$ 30 ₩					
		Number of eggs laid.					
	:	N P					
		Mon.		Wed. Thur the week	r. Fri.		
	Days of the week	Mon.	Tue.	Wed.	Thur.	Fri.	
	No. of eggs laid	25	45	• • • • • • • • • • • • • • • • • • •	50	111.	

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.

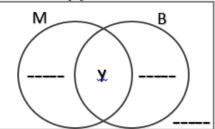
b. Write 72 as a product of its prime factors.

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	Punils did	a test and scored m	narke ae e	hown in t	he table b	elow					
_ '	. 45110 414	Marks	50	k	45	80					
		Number of pupils	2	6	3	4					
		Trainber of papils		<u> </u>	3	'					
	a. How many pupils did the test?										
	b. Find the value of k if the mean mark was 61.										
	D. 1 IIIC	THE VAIGE OF KIT II	ic mean n	Idi K Was	Oi.						
	o \//h	at was the range of	the mark	, ₆ 2							
	C. VVIII	ar was me range or	me mair	 :							
25	a. Solve th	ne inequality: 9 \leq -3	B(y – I)								
	b. State t	he first two values	of the sol	ution set	for the in	nequality.					
26	a. A wata	h loses 5 seconds ev	erv one h	our. How	many min	utes will it	lose in				
	two days	_	or y on o	oui		4100 W.III 11					
	•										
	h Evnress	s 5m/sec in km/hr									
	D. LAPI 658	OHVOCC III KIIVIII									

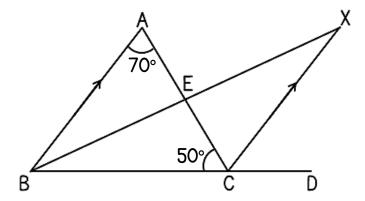
29 Opoka rides a distance of 2.97km from his home to school on a bicycle.

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°.



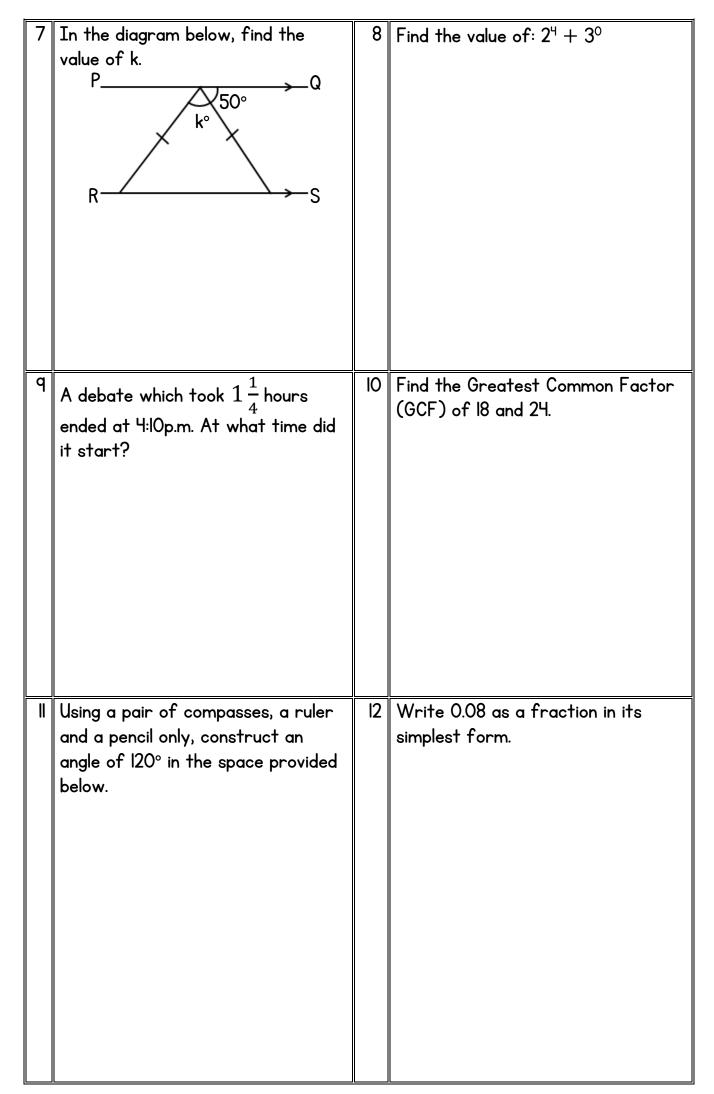
Find the sizes of angles;

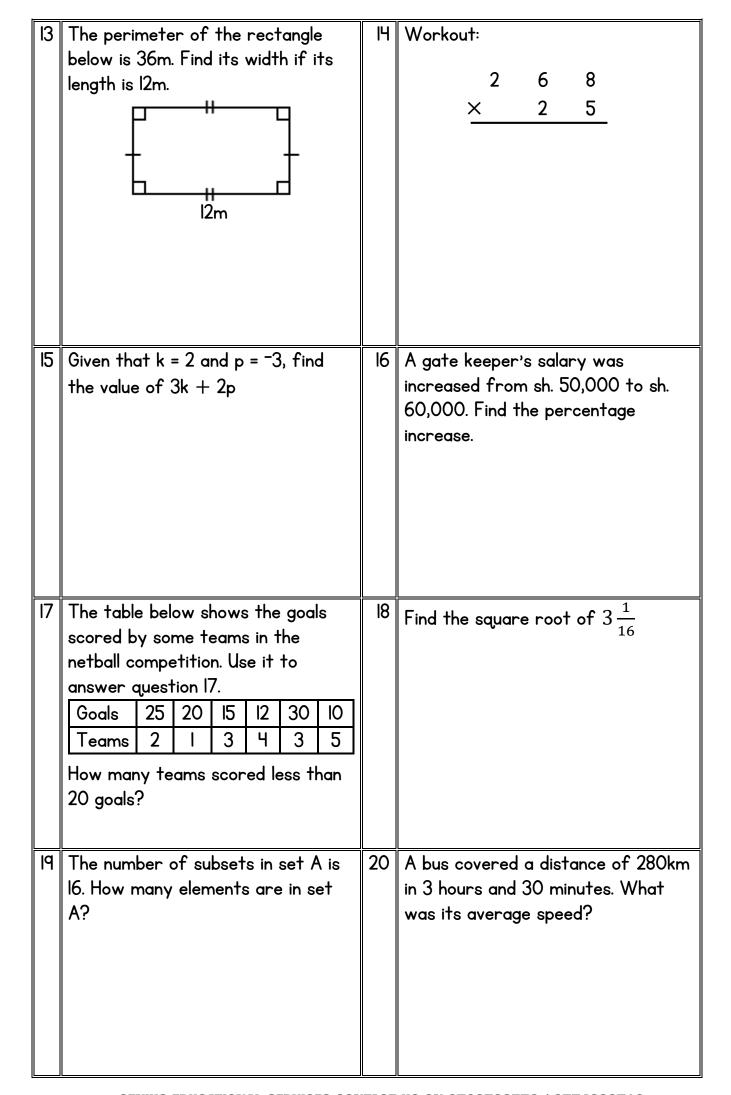
a. CEX

b. DCX

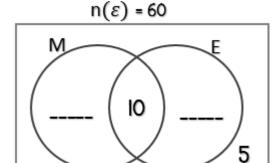
31	The figure below is a cuboid. Study and use it to answer the questions that
	follow.
	(2y - 3) cm a. Find the value of y.
	(y) cm
	(y - 2) cm
	(y + 2) cm
	b. Find the volume of the cuboid.
32	A tourist left town A and travelled 55km westwards to town B. He then
	turned on a bearing of 215° and travelled 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 Icm to represent IOkm, draw an accurate diagram to
	show the tourist's journey.
	c. Find the shortest distance from town C to A in km.
	2

-	CANDIDATE'S INFORMATION										
Inc	dex number	:									
No	ıme	•									
Sig	gnature	•									
Sc	hool name	•									
! Di	strict name	:									
'		- <u>SEC</u>	<u>TIŌÑ</u>	A: 40	<u> </u>	<u>RKS</u>					
I	orkout: 87 — 65	5		2	Write	in wo	ords:	55,00	Ol		
3 Sir	mplify: ⁻ 6 — -4			4	Solve	² / ₅ m	= 4				
ll.	ven that set Q = mbers less than	•		6	Work	out: 3	$\frac{3}{4}$ ÷	$1\frac{1}{2}$			





- 21 In a class of 60 pupils, 30 like English (E), y like mathematics (M) only, 10 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.

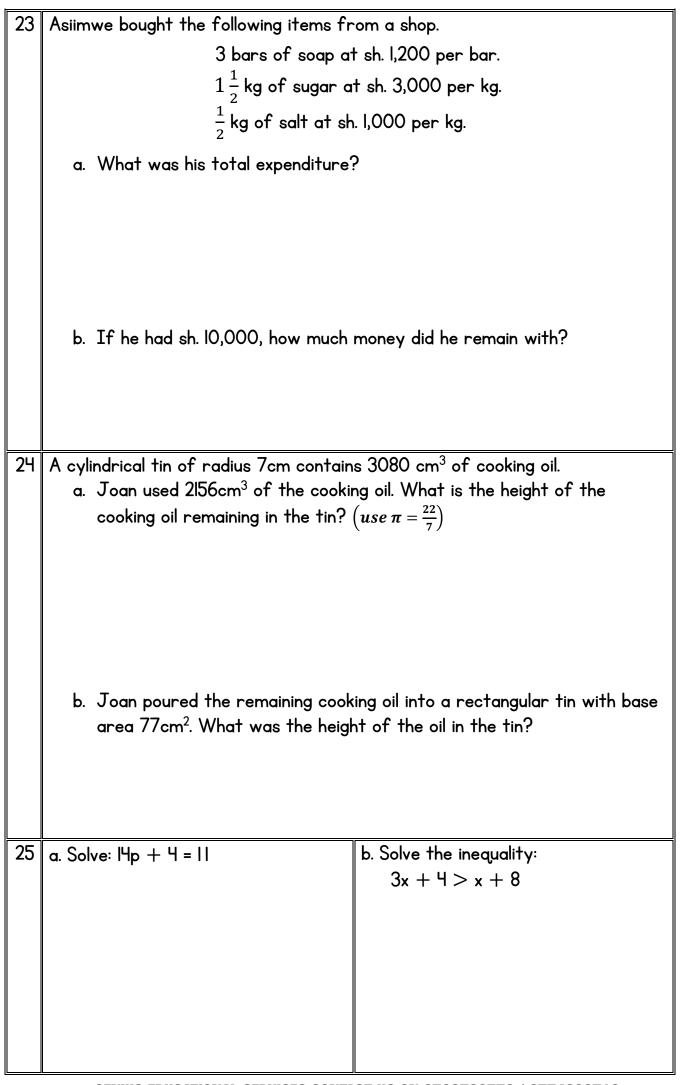


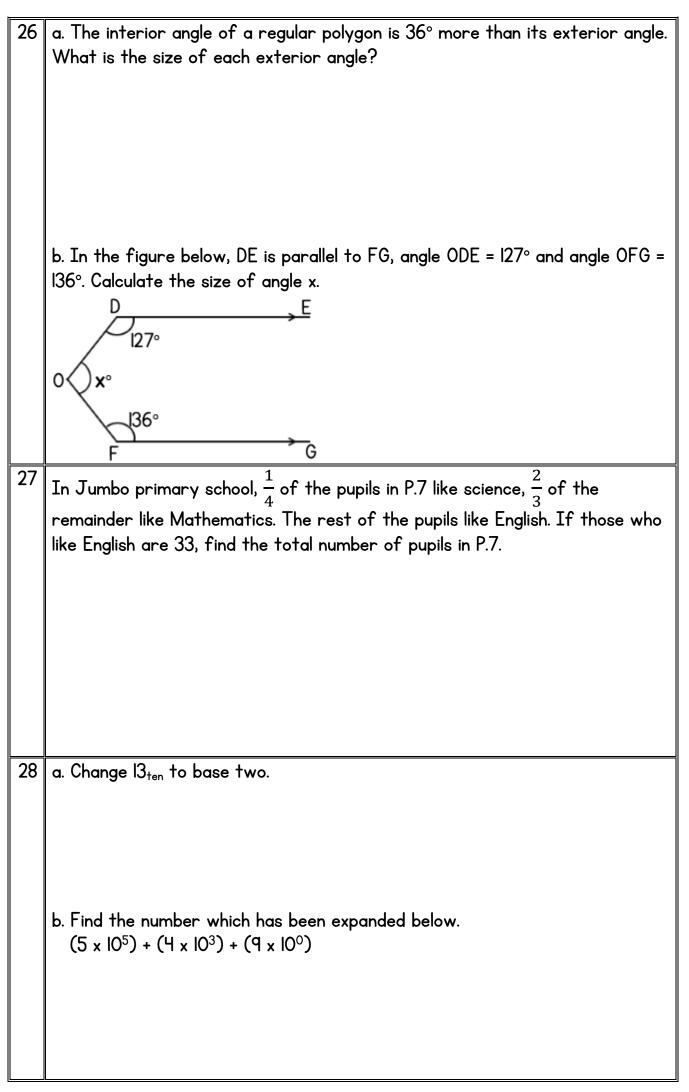
b. Find the value of y.

a. How many pupils like Mathematics altogether?

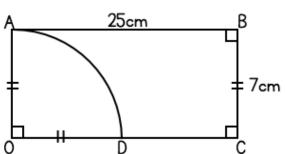
22 a. Using a ruler, a pair of compasses and a pencil only, construct a triangle ABC where line AB = 6.4cm, angle CAB = 60° and angle ABC = 75°.

b. Measure the length BC.





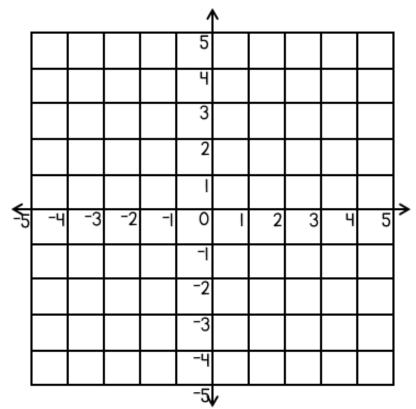
29 Carefully study the diagram below and use it to answer the questions that follow. Line AB = OC and AO = OD.



a. Find the length of arc AD? $\left(use \ \pi = \frac{22}{7}\right)$

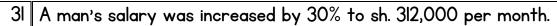
b. Workout the perimeter of ABCDA

a. On the graph below, plot the points A($^-2$, $^+3$), B($^+5$, $^+3$), C($^-2$, $^-1$) and D($^+1$, $^-1$).

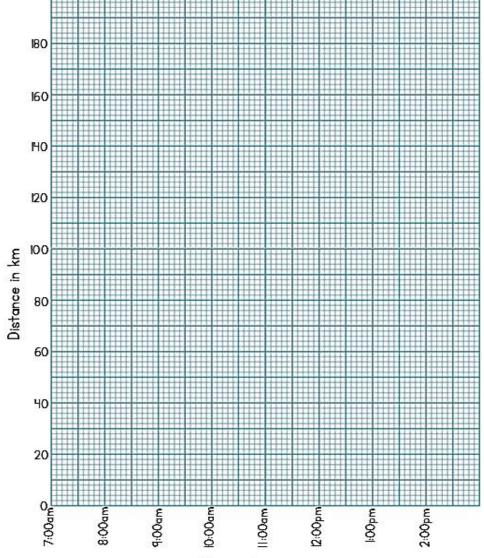


b. Join A to B, B to D, D to C and C to A.

c. Name the quadrilateral formed after joining the points.



- a. What was the man's monthly salary before the increment?
- b. If 5% of his new salary is subtracted as tax, what was his final salary?
- Okidi left Kampala at 7:00am driving a lorry at average speed of 40km/hr 32 for 2 hours to Jinja. He rested for one hour at Jinja then continued to Tororo at an average speed of 50km/hr for another 2 hours.
 - a. Use the information to show Okidi's journey on the graph below.

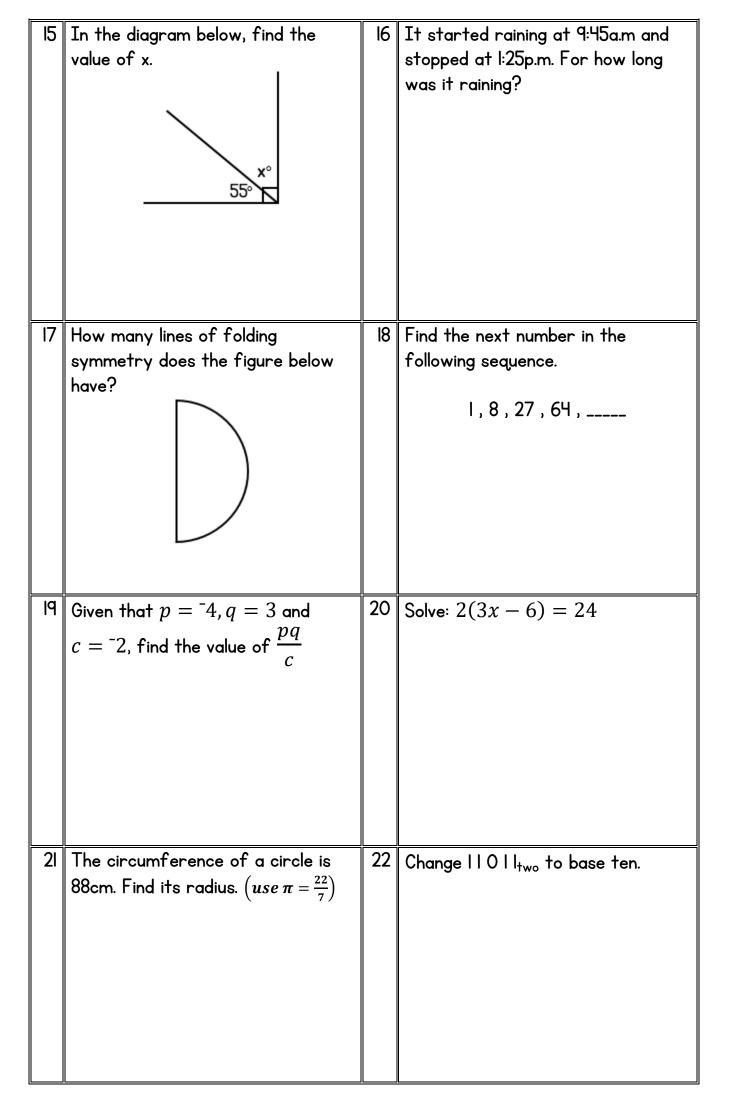


Time in hours

b. Calculate Okidi's average speed for the whole journey.

CANDIDATE	E'S INFORMATION
Index number :	
Name :	
Signature :	
! School name :	
District name:	
	: <u>40 MARKS</u>
3 2 x 3	2 Write in figures: thirty eight thousand, fifty. 4 Write 54 in Roman numerals.
5 Simplify: *82	6 Write down the fraction of the shaded part of the drawing below.

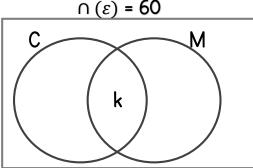
7	Change 750 centimetres into metres.	8	Using a pair of compasses, a ruler and a pencil only, draw an angle of 60° in the space provided below.
q	Given set C = {2 , 7 , 10 , 17} and set D = {5 , 6 , 7 , 11 , 15}, find C∩D	Ю	In a basket, 4 bad eggs are mixed up with 3 good eggs. If an egg is picked at 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.	4	Five pupils scored the following marks in a mathematics test: 55, 72, 61, 93 and 60. Find the median mark.



25	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?	26	the area (A∩B) A B B
27	A man drove a car steadily at a	28	A 55° B Arrange the following fractions in
2,	speed of 25 metres per second. Change this speed into kilometres per hour.	20	order beginning with the smallest: $\frac{2}{7}$, $\frac{2}{9}$ and $\frac{1}{3}$
29	If prepresents 1500 pupils in a school, find the number of pupils represented by	30	A farmer banked sh. 126,000 for 4 months at a simple interest rate of 8% per year. Find his interest.

SECTION B: 60 MARKS

- At a party attended by 60 pupils, 42 ate chicken (C), (k + 8) ate meat (M) only, 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.



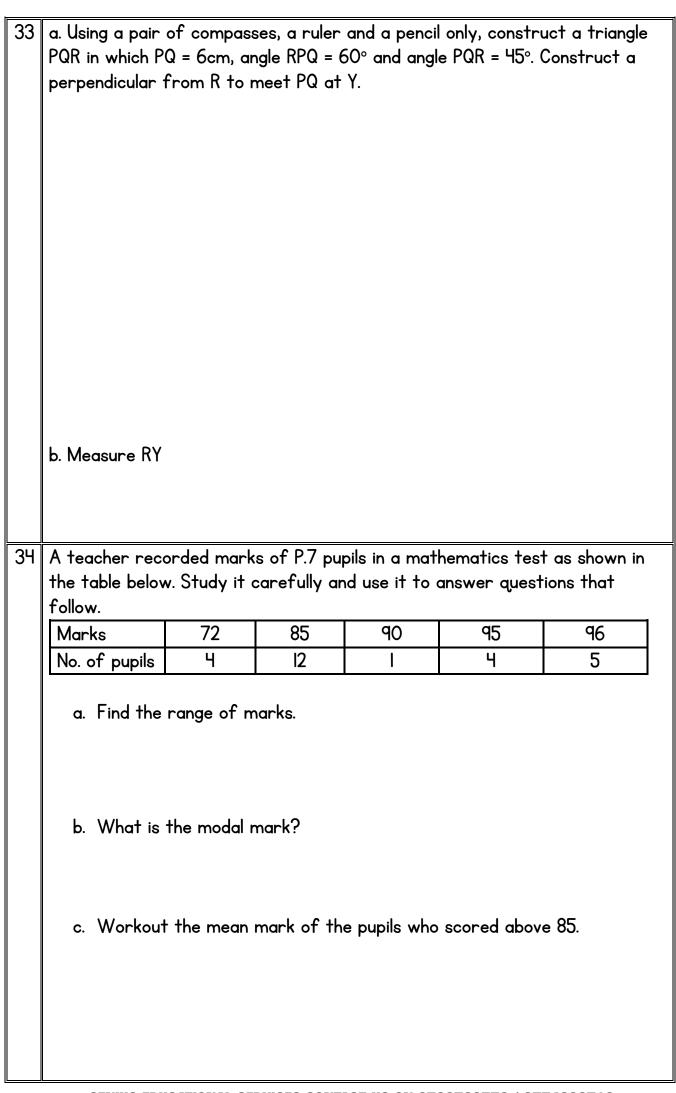
b. Find the value of k.

- c. If a pupil is picked at random, what is the probability that a pupil ate meat?
- Fatuma went to the market and bought the items shown in the table below.

 a. Complete the table.

Item	Quantity	Price	Amount
Eggs	15	Sh. 500 per egg	Sh
Meat	kg	Sh. 6,000 per kg	Sh. 15,000
Cooking oil	$\frac{1}{2}$ litre	Sh per liter	Sh. 2,000
Sugar	$1\frac{1}{2}$ kg Sh. 3,000 per kg		Sh
	Sh		

b. If Fatuma went to the market with sh. 30,000, how much did she remain with?

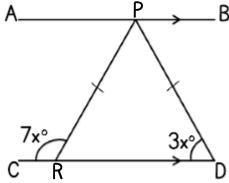


The rates at which the bank buys and sells United States dollars and Kenya shillings are given in the table below.

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

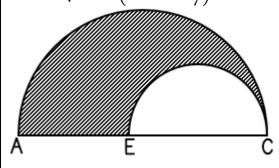
a. If a trader has 300 dollars and 500 Kenya shillings, how much money in Uganda shillings can he get from the bank?

- b. Peter has Ug. Sh. 160,000, how many U.S dollars can he get from the bank?
- 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. Find the value of x.

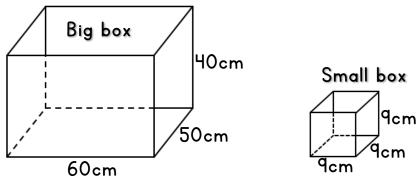
- b. Workout the size of angle CRP.
- In the diagram below, AC = 56cm and EC is half of AC. Find the area of the shaded part. $\left(use\ \pi=\frac{22}{7}\right)$



—		
38	a. Solve: $6x - 9(x - 2) = 3$	b. Solve: $3 + 4m > 12 + 3m$
39	a. Workout: $\frac{0.28 \times 0.08}{1.4 \times 0.4}$	b. Workout: $1\frac{2}{5} \times 1\frac{1}{2} \div 3\frac{1}{2}$
40	The pie chart below shows how Matarcarefully and answer questions that fa. Fi	follow. Ind the value of y. Indicate the value of y. Indicate the part of the control of the value of y.

b. Simplify:
$$\frac{b^3 \times b^5}{b^2 \times b^4}$$

- c. Expand 789 using powers of 10.
- The diagram below shows a big box 60cm long, 50cm wide 40cm high and a small box 9cm long, 9cm wide and 9cm high. Study it carefully and answer the questions that follow.



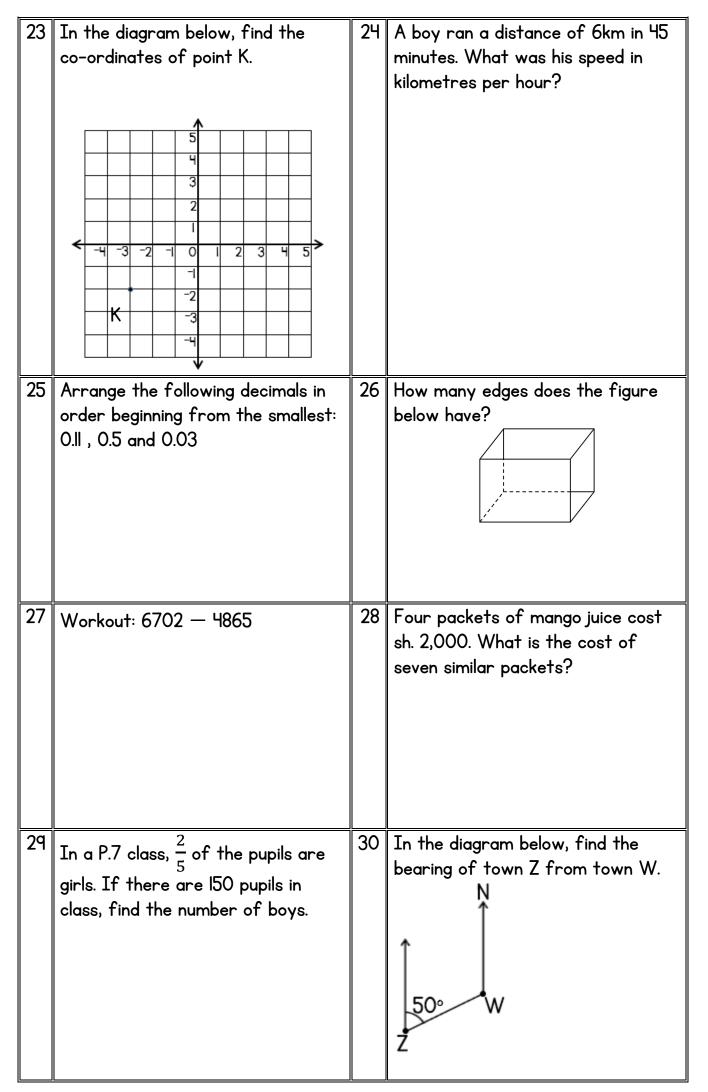
- If such small boxes are to be packed into the big box,
 - a. find the number of small boxes that will be packed in the first layer of the big box.

- b. how many layers will fill the big box?
- c. how many small boxes will fill the big box?

I	CANDIDAT	E'S 1	INFORMATION
į	Index number:		
İ	Name :		
l	Signature :		
!	School name :		
1	District name:		
<u>'</u>	SECTION A	Ā: ¥C	
ı	Workout: 10 ÷ 2	2	Simplify: 2x + 3x
3	Write in figures: Sixty one thousand.	4	Given set A = {a , b , f , k} and set 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.
q	What is the value of 5 in the figure 65011?	Ю	Change 2.5 metres to centimetres.
	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: 7,3,6,2,5,1 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 $a=\bar{\ }3$ and $b=4$, find the value of $2a+2b$	16	Find the next number in the sequence: 23 , 19 , 16 , 14 ,
	A fifty minute test started at 9:50a.m. At what time did it end?	18	Solve: $4p - 4 = 20$
19	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.



SECTION B: 60 MARKS

b. Find the value of y.

In a class party of 51 pupils, 28 drank mirinda (M), 29 drank pepsi (P), y drank both mirinda and pepsi while 6 did not drink any of the two sodas. a. Use the information given above to complete the Venn diagram below.

 $n(\varepsilon) = 5I$ y e

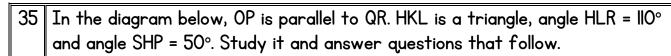
c. Find the number of pupils who drank one type of soda only.

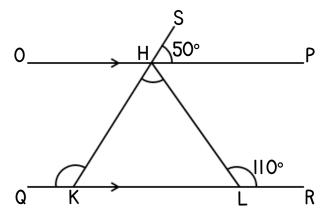
32 a. Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD in which AB = 8cm and BC = 7cm.

b. Measure the length of diagonal AC.

c. Measure the angle BAC.

33		below shows the a		parture	e time of a bus the	at travels				
	from Kam	pala to Hoima daily	I			1				
		Town	Arrival t	ime	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	II:40a.m							
a. At what time does the bus leave Kampala? b. How long does the bus stay at Bukomero?										
	c. How	long does the bus	take to trav	el from	n Bukomero to Kib	oga?				
	d. Find the total time taken by the bus to travel from Kampala to Hoima?									
34	a. Solve: 21 	m+3=18-m	k	o. Solve	= 2(3x-1) - 4(x-1)	(-1) = 4				





Find the size of;

a. angle y.

b. angle m.

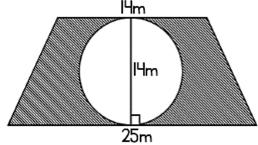
36 a. Find the number which has been expanded below.

$$(1 \times 10^4) + (3 \times 10^2) + (6 \times 10^0)$$

b. Change 1011_{two}to base ten.

c. Find the value of x: 3+3=x (finite 4)

Find the area of the shaded part in the diagram below. $\left(use\ \pi=rac{22}{7}
ight)$

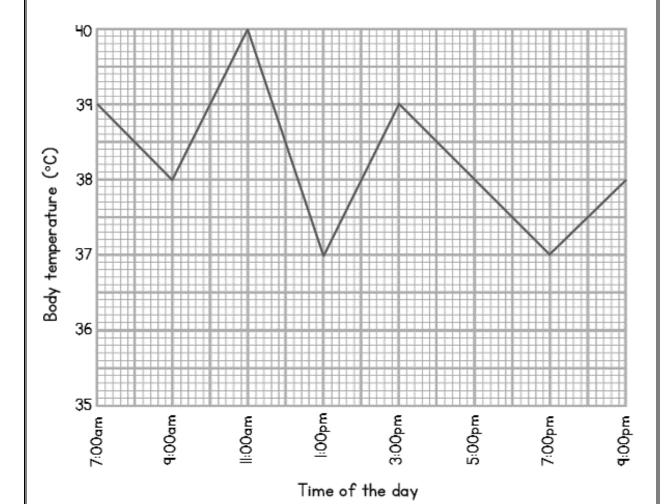


38 The mean of the scores 8, 9, 6, 4 and x is 6.

a. Find the value of x.

- b. What is the median score?
- c. Find the probability that a score picked at random is below the mean.
- 39 Makeba's car uses 8 litres of petrol for every 50km.
 a. How much petrol does it need for a journey of 325km?

b. If one litre of petrol costs sh. 2,900, how much money will he spend on petrol needed to run the car for $1\frac{1}{2}$ hours at a speed of 50km per hour?



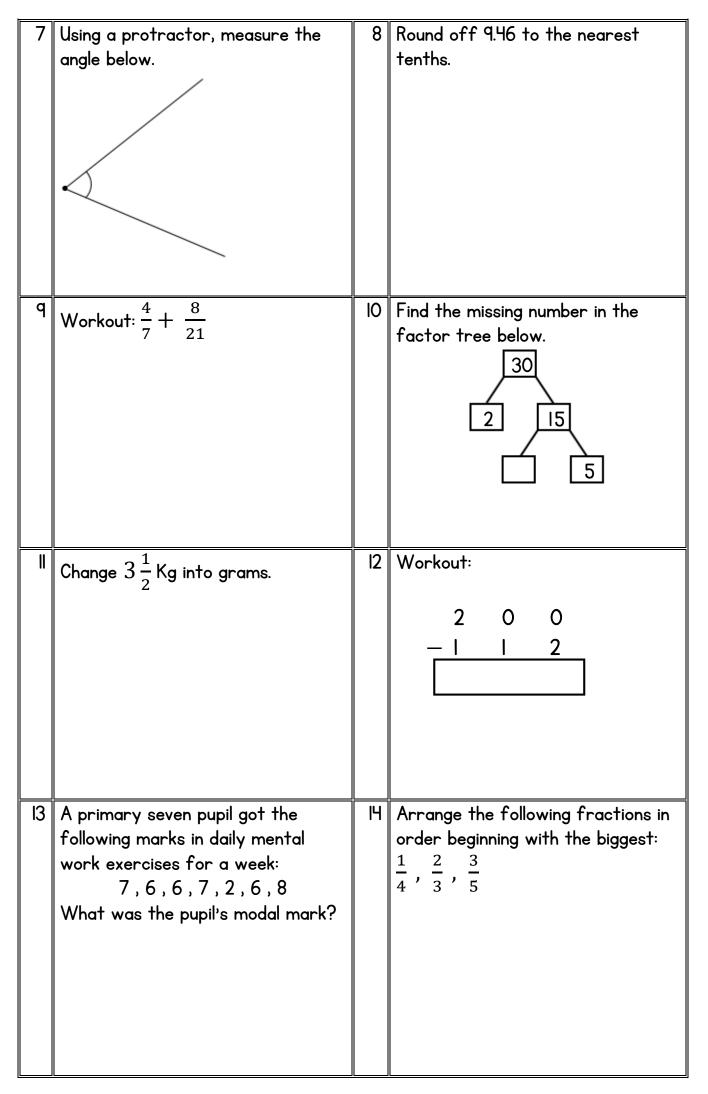
- a. That was the highest temperature recorded?
- b. Find the range in the recorded body temperature.
- c. Workout the average body temperature of the patient from 3:00pm to 9:00pm.

Ч	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 he earn as salary?
42	' '
	a. n ² × n
	b. m ⁶ ÷ m ³
	c. $\frac{a^2 \times a^5}{a^3}$

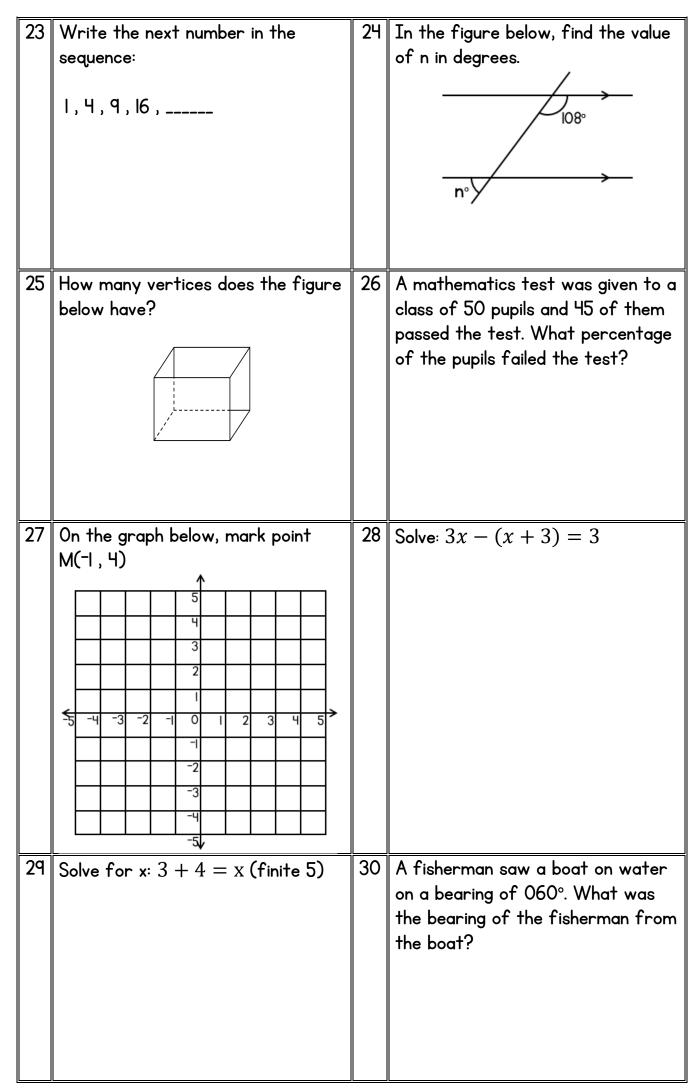
	C	CANDIDATE'S INFORMATION										
Index number	:											
Name	:											
Signature	:											
School name	:											
District name	:							·				

SECTION A: 40 MARKS

	<u> JECTION A: 70 MARKS</u>					
ı	Workout:	2	What fraction of the circle is shaded?			
3	In the Venn diagram below, find n(A∩B). A 5 4 6 7 3	4	Write 24 in Roman numerals.			
5	Simplify: 6y + 4y - 5y	6	Write in figures: Forty two thousand eight.			



15	Given that set M = {I, 2, 4}. How many subsets are in set M?	16	Workout: +7 — -4
17	Workout: $2\frac{1}{2} - \frac{1}{4}$	∞	David got a loan of Shs. 500,000 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?
P	Find the area of the figure below. 7m 5m 13m	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:	22	The cost of 5 bars of soap is Shs. 5,400. Find the cost of 3 similar bars of soap.



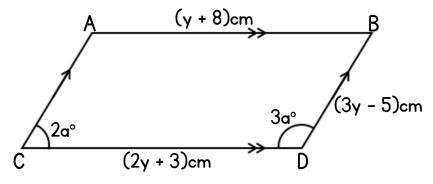
SECTION B: 60 MARKS

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 I4 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.

33	a. Solve	for x:	2(x+1)	-3(2)	$(2x - 1)^2$	= -3

b. Find the value of $a^r \div a^x$, given that a=2, r=5 and x=3

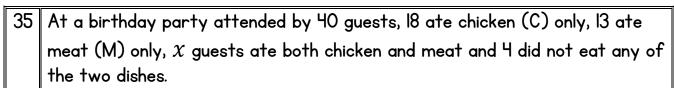
34 Use the figure below to answer the questions that follow.



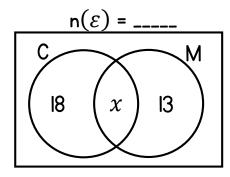
a. Find the value of a.

b. Find the size of angle BAC in degrees.

c. Workout the value of y.



a. Use the information given above to complete the Venn diagram below.



b. Find the value of \mathcal{X} .

c. How many guests did not eat meat at all?

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.

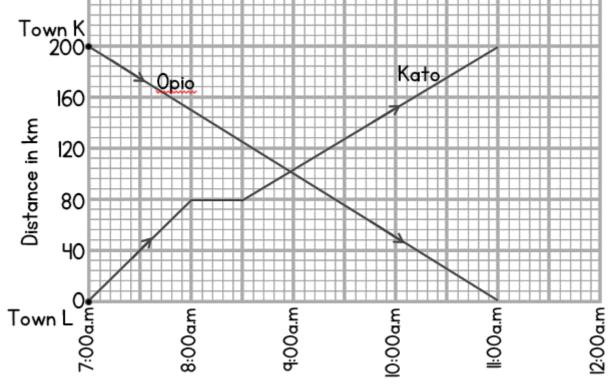
c. Find the number of trips the pickup will make to transport the whole flour from the milling machine to his shop.

37	On a mixed farm, $\frac{1}{3}$ of the land is used for growing food crops while $\frac{1}{4}$ of			
	3			
	the remaining land is for cash crops. The rest of the land is for cattle			
	grazing. a. What fraction of the land is for cattle grazing?			
	d. What it define of the land is for earlie grazing:			
	b. If 15 hectares are used for cash crops, what is the total area of the			
	farm?			
20				
38				
	game are given below:			
	Use the information to answer the questions that follow.			
	Game No. of pupils			
	Football 55			
	Basketball 40			
	Volleyball 45			
	Tennis 20			
	Netball 40			
	a. What percentage of the pupils play netball?			
	b. If a pupil is picked at random, what is the probability that a pupil			
	plays volleyball?			
	- C:			
	c. Find the mean number of pupils who play games in the school.			
	I			

The graph below shows the journeys made by Opio and Kato between towns K and L which are 200km apart.

Opio left town K at 7:00am and drove at a steady speed of 50km/hr to town L. Kato left town L at the same time and covered a distance of 60km at a steady speed in an hour. He then rested for $\frac{1}{2}$ an hour after which he drove for $2\frac{1}{2}$ hours to town K.

Use the graph to answer the questions that follow.



Time in hours

- a. At what time did Opio and Kato meet?
- b. What distance had Opio covered by 9:00am?
- c. How far from town L was Opio at 10:00am?
- d. Workout Kato's average speed for the journey he covered after resting.
- e. Find Kato's average speed for his whole journey.

CANDIDATE'S INFORMATION				
Index number :				
Name :				
! Signature :				
School name :				
District name:				
SECTION A	. 4			
.		2 Given that set K = {I, 2, 3, 4, 5}		
Workout: 60 ÷ 6		and set L = $\{0, 5, 7\}$. Find (K \cap L)		
3 Simplify: 4k - 3k + k	4	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: 3,0,7,8,76		
		3,0,1,0,0		

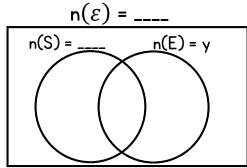
7	Using a pair of compasses, a ruler and a pencil only, construct an angle of 30°.	8	Abdul bought the following number of goats during the week as follows: Days Mon Tue Wed Thur Fri Goats 3 2 5 7 8 Find the range.
9	Write CXC in Hindu-Arabic numerals.	Ю	If Nandi buys 4 text books for shs. 240,000, how much will 9 similar books cost?
	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: $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$	Н	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 I4 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.		The base of a cube is 25cm². Calculate the volume of the cube.
P	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. 35° 80°

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. $n(\varepsilon) = 38$ $n(\varepsilon) = 22$ $22 - 5$ $18 - 5$ 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. D Scm A B
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.

SECTION B: 60 MARKS

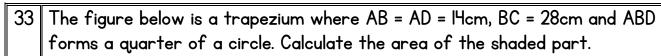
- 31 At a birthday party, 72 guests were invited. 55 were served with sodas (S), y were served with mineral water (M) while 7 did not take any of the two drinks and 17 were served with both drinks.
 - a. Represent the above information on the Venn diagram.



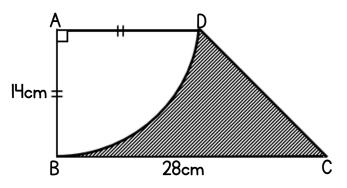
b. Find the value of y.

- c. How many guests were served with one drink only?
- 32 a. Given that m=2 and y=3. Workout: $\frac{2(ym)+2}{(m-y)-6}$

b. Barbra is 4 times as old as Mukasa. In 10 years' time, Barbra will be twice as old as Mukasa will be. How old is Barbra and Mukasa now?



$$\left(use\ \pi=\frac{22}{7}\right)$$



- The district inspector of schools of a certain district registered 4000 candidates for PLE 2007. Out of these, 30% were girls below 15 years and 25% were boys below 15 years of age. If there were 1,000 girls who were above 15 years of age;
 - a. Find the number of girls who sat for PLE.

b. Find the number of boys who sat for PLE.

c. How many first grades did the district get if all the candidates below 15 years of age passed in division one?

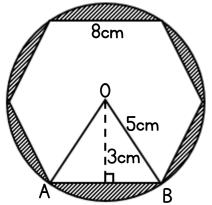
35	3
	A certain county in Uganda has a population of 300,000 people. Of these, $\frac{3}{5}$

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.

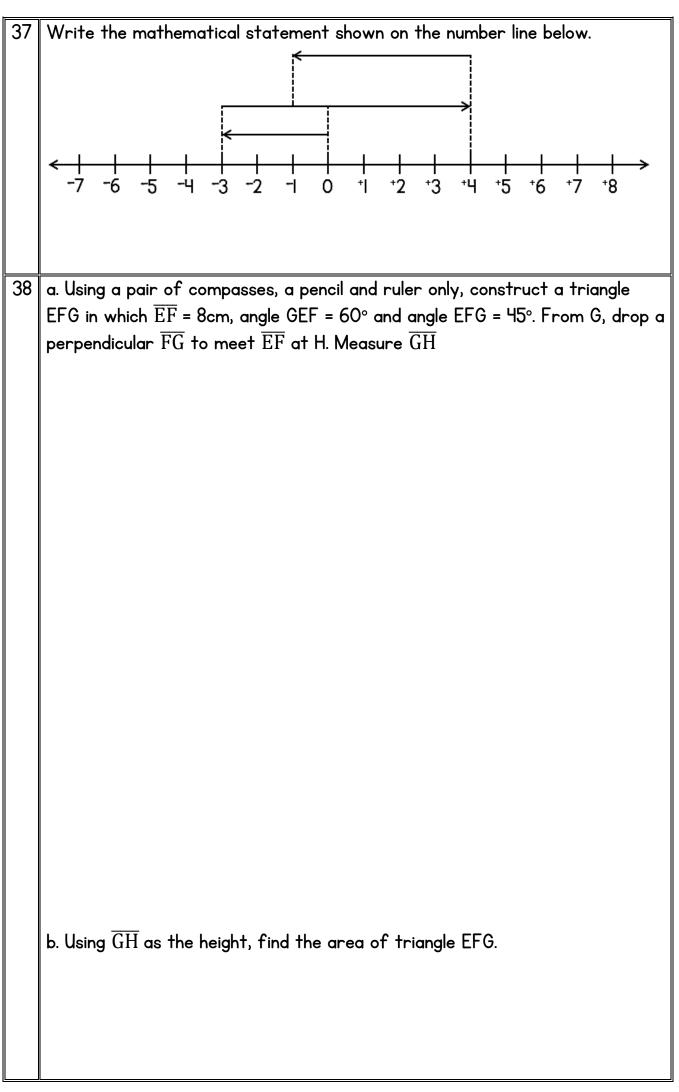
b. What is the total number of boys and girls in the county?

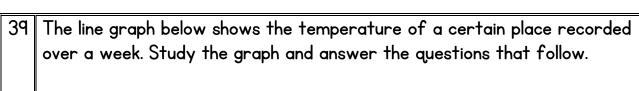
The figure below shows a regular six-sided polygon of sides 8cm long enclosed in a circle of radius 5cm. Triangle OAB of height 3cm is part of the polygon.



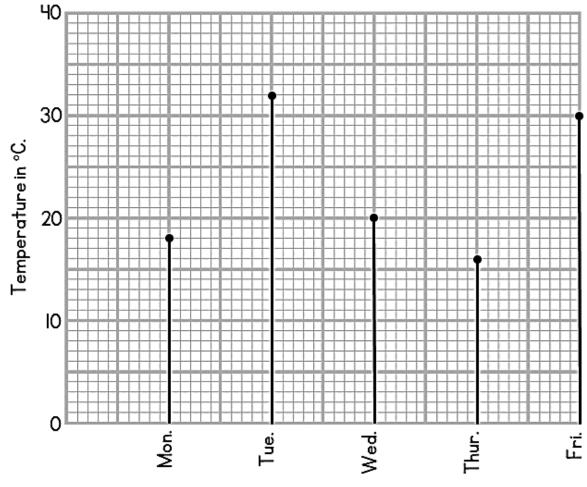
a. Find the area of the polygon.

b. Find the area of the shaded region. ($use \pi = 3.14$)



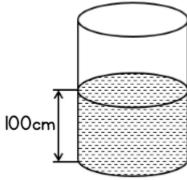






Days of the week.

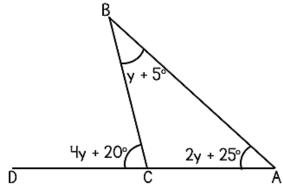
- a. On which day was the highest temperature recorded?
- b. What was the lowest temperature recorded?
- c. Find the mean temperature of the given days.



a. Find the radius of the tank. $\left(use\ \pi=\frac{22}{7}\right)$

b. If the tank is $\frac{4}{5}$ full, find its capacity.

In the diagram below, CAB is a triangle and DCA a straight line. Study it and answer the questions below.



a. What is the value of y?

b. What is the size of angle ACB?

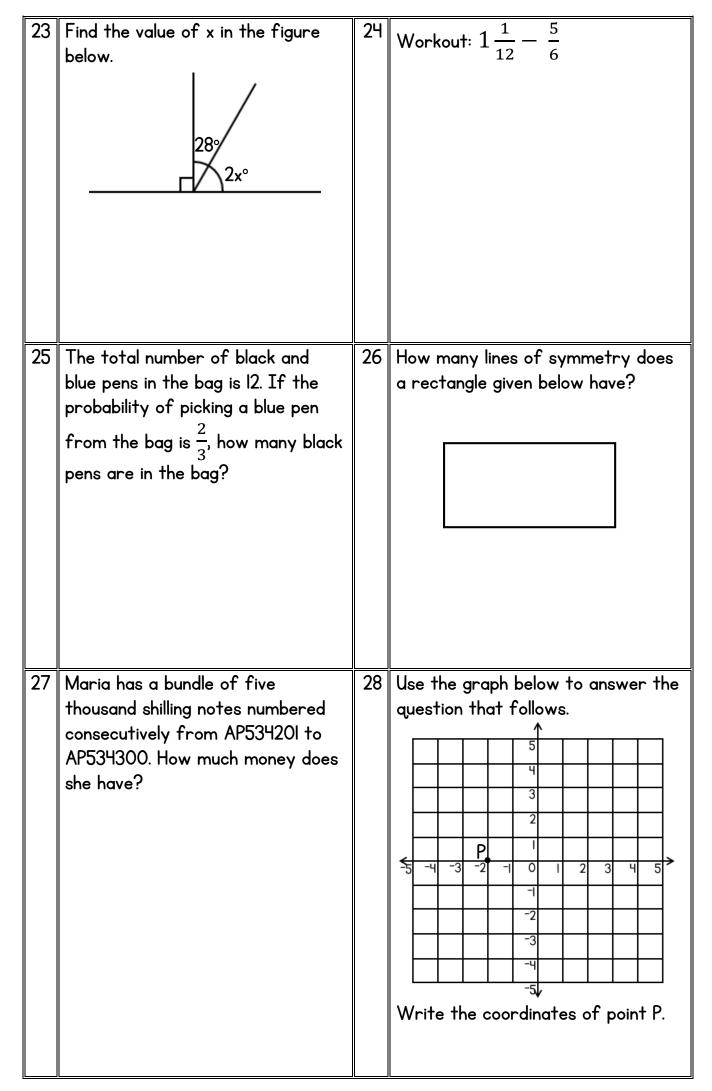
42	'
	then changed its course and sailed on a bearing 130° for 90km before reaching Kisumu.
	a. Draw a sketch diagram of the journey.
	b. Using a scale lcm=20km, draw an accurate diagram of the whole journey.
	journey.
	c. What is the bearing of Kisumu from Port Bell?

MATHEMATICS PLE 2007

CANDIDATE	E'S	INFOI	RM/	TIC	DN	
Index number :						
Name :						
Signature :						
School name:						
District name:						
SECTION A		7 24 26	<u></u>			. – – – –
Workout:	2	Write One th				en
		One ii	lousu	114, 11	ı III 16	G1 1.
4 3						
× 2						
3 Simplify: $6x - 5m + 3m - 4x$	4	Work	out: 1	t ⁶ ÷	· t ²	
5 Solve: $3 - x = 2x$	6	Simplif	:v: -5	_ +	5	
		G	, ,			

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,	Ю	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 $\frac{xy}{z}$	Y	Change 12,400 metres to kilometres

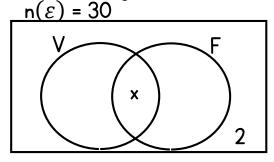
15	The radius of a wheel of a bicycle is 35cm. find the circumference of the wheel. $\left(use\ \pi=\frac{22}{7}\right)$	16	Change 11010 _{two} to base ten.
17	Find the sum of the values of the digits 3 and 5 in the number 3958.	18	The first half of a football match ended at5:25p.m after being played for 45 minutes. At what time did the match start?
Iq	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.



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?

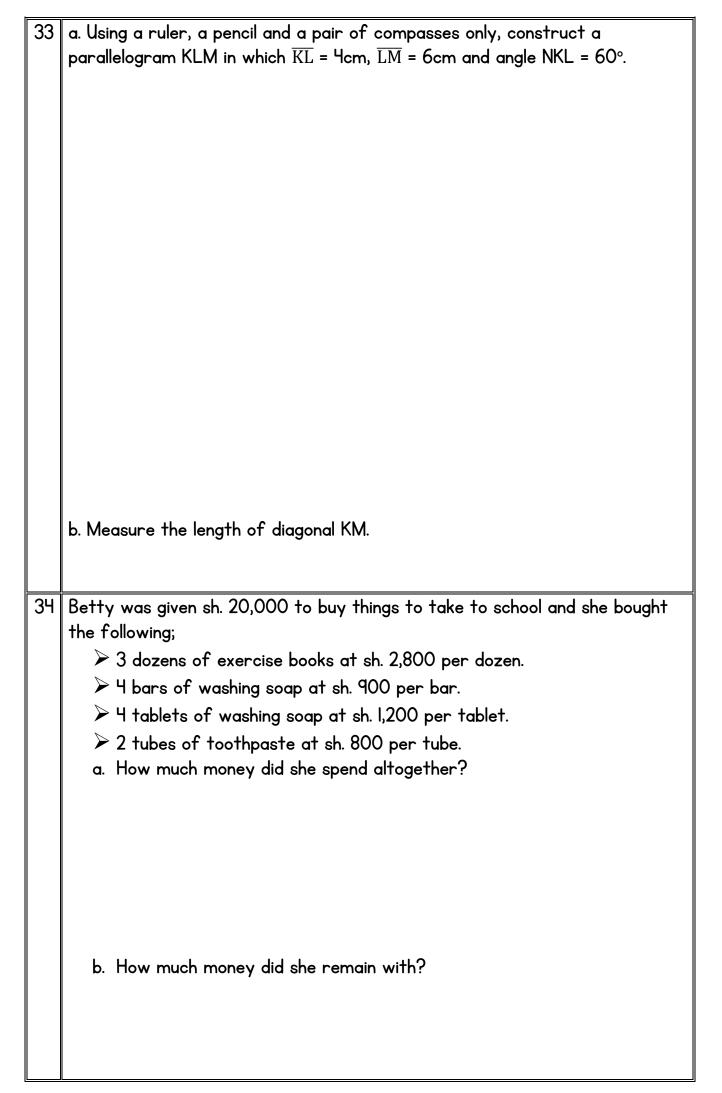
SECTION B: 60 MARKS

- 31 In a class of 30 students, 20 play volleyball (V), 15 play football (F), (x) play both volleyball and football and 2 do not play any of the two games.
 - a. Use the information given above to complete the Venn diagram below.

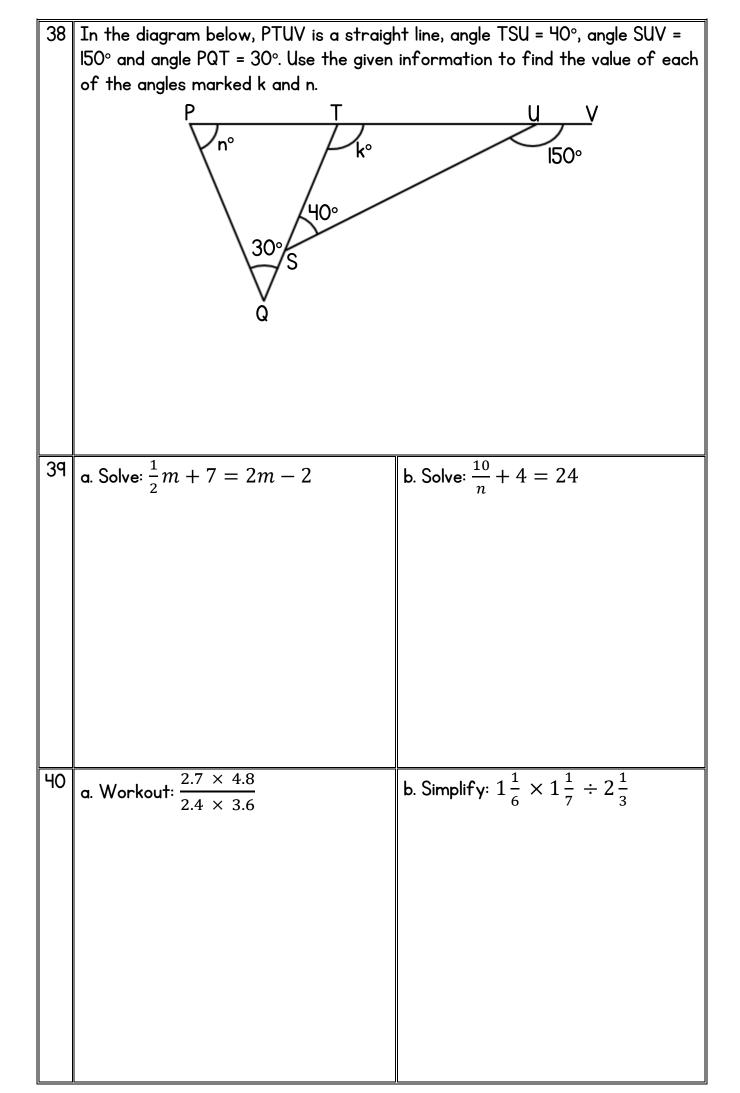


b. Find the value of x.

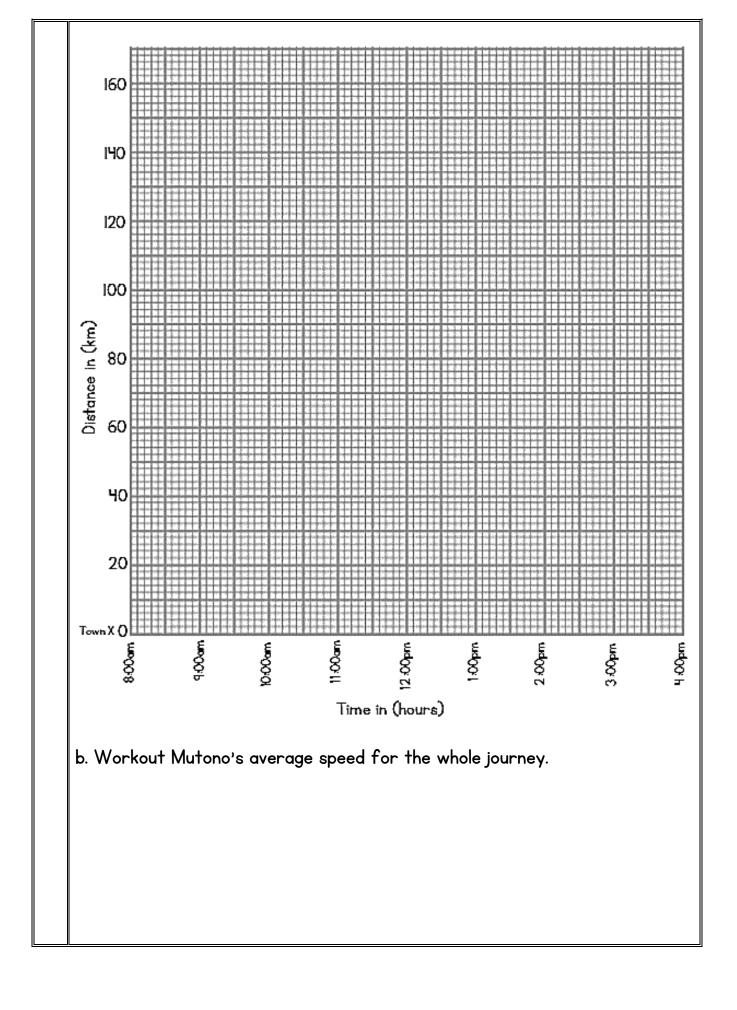
- c. Find the number of students who play only one game.
- 32 Kaliso's poultry produces 3,000 eggs in a day. If the eggs are packed in trays of 30 eggs each, how many trays of eggs does he produce in a week?



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 I4 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. I20,000.

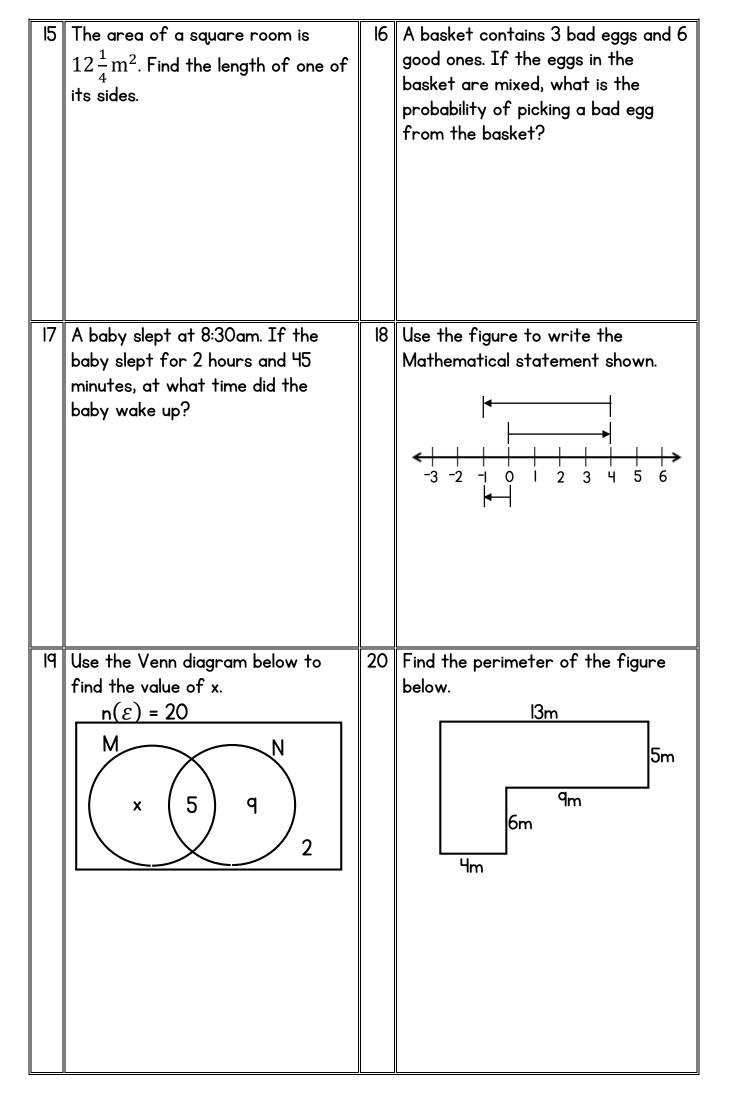


- Mutono left town X at 8:00a.m and drove at 90km per hour for one hour to town Y. He rested for half an hour at town Y. He left town Y and drove for one hour at 70km per hour to town Z. He rested for half an hour at town Z. He then left town Z and drove back to town X at a steady speed of 40km per hour.
 - a. Draw Mutono's journey on the graph provided below. (see next page)



MATHEMATICS PLE 2006

CANDIDATI	E'S :	 INFORMATION
Index number :		
Name :		
Signature :		
School name :		
I I District name :		
SECTION A		
Workout:		Write in figures:
Workour	_	One thousand, one
5 6		
_4 5		
3 Simplify: m + 2m + 3m	4	2 9
	•	Workout: $\frac{2}{3} \times \frac{9}{10}$
5 Round off 23.47 to the nearest	6	Write 29 in Roman numerals.
whole number.		Withe 21 in Norman numer dis.

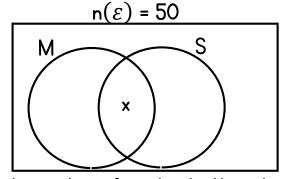


21	Given that set A = {0, I, 2, 3, 5, 7} And set B ={0, 4, 6, 7, 9}, find n(A∩B)	22	Abdul is x years old. He is 5 years younger than Madina. How old is Madina?
23	Given that $a=6$, $b=3$, $c=2$ and $d=1$. Find: $\frac{ad}{bc}$	24	Using a ruler, a pencil and a pair of compasses only, construct an angle 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.

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.

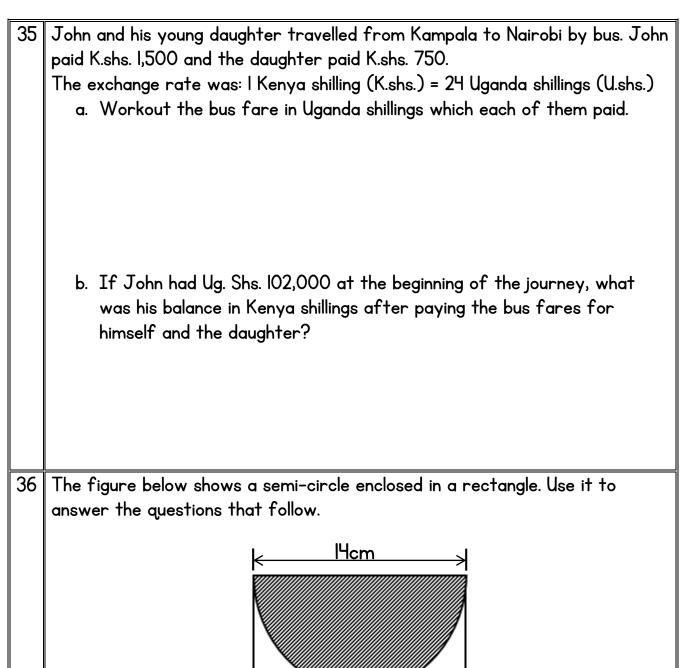
SECTION B: 60 MARKS

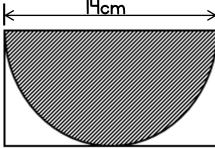
- 31 In a Primary seven class of 50 pupils, 27 like mathematics (M), 22 like science (S), x pupils like both mathematics and science and 3 pupils do not like any of the two subjects.
 - a. Represent the above information on a Venn diagram given below.



b. Find the number of pupils who like only one subject.

32	Jane bought the following items from the market.
	> 3kg of sugar at shs. 1,400 per kg.
	$\geq 1\frac{1}{2}$ kg of rice at shs. I,200 per kg.
	$>1^{\frac{2}{1}}$ 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.
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?



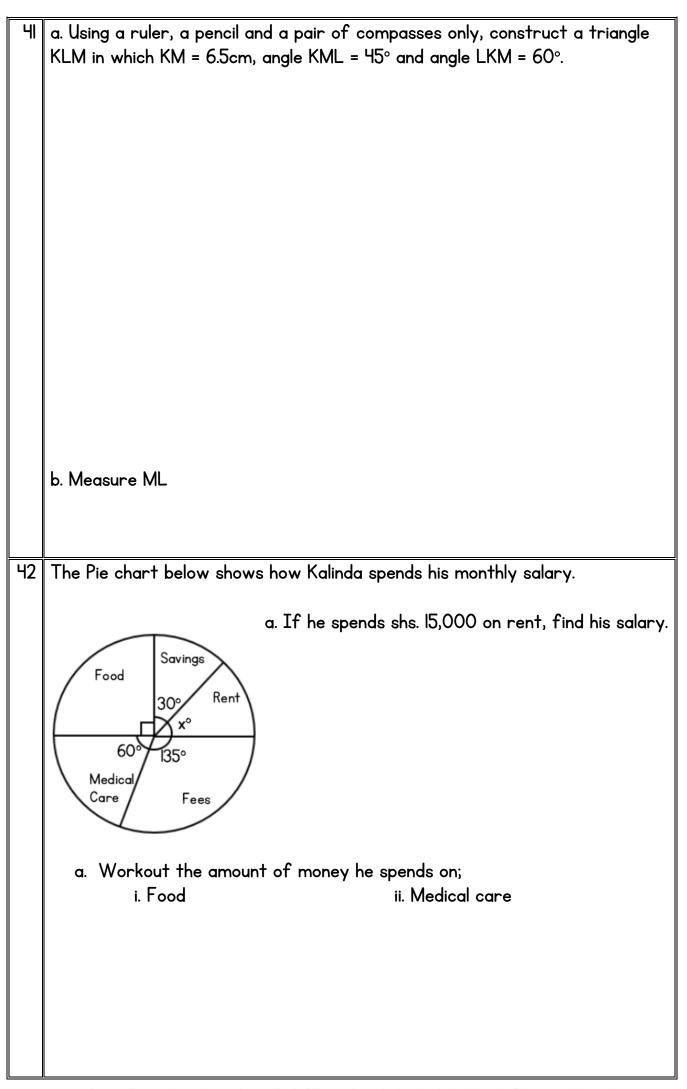


a. Find the area of the rectangle.

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 average speed for the whole journey.					
38	Three pupils are aged (2x + 5), (3x - 10) and (x + 3) years. Their total age is					
30	Three pupils are agea (2x + 3), (3x - 10) and (x + 3) years. Their total age is 34 years. a. Find the value of x.					
	b. How old is the youngest pupil?					
39	a. Solve: $\frac{m+2}{2} = \frac{4m-4}{11}$ b. Solve: $\frac{2x+4}{5} - 6 = 0$					

40	The bearing of town B from town A is 120° and town B is 4 km from A. The						
	bearing of town C from B is 60° and town C is 5 km from B.						
	a. Draw an accurate diagram showing the three towns. (Use a scale of:						
	lcm = lkm)						
	b. Find the shortest distance between town A and C in kilometres.						



PUPIL'S NOTES AND CORRECTIONS