# SET ONE

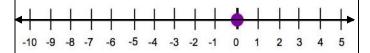
## SECTION A (20 QUESTIONS - 40 MARKS)

1. Subtract; 3 - 2	2. How many members are in set K?
3. Given the number 5783. Find the sum of the value of 5 and the value of 8.	4. Mummy bought 2 kilograms of sugar on Monday. How many grams did she buy?
5. With the help of a pencil, ruler and pair of compasses, construct an angle of 45°	6. How many half litre containers of water can be used to fill a 10 litre jerrycan?

7. A mathematics exam began at
8:00am and ended at 10:30am .
How long did it last?

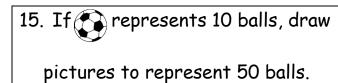
8. Zungululu bought a goat at shs. 67,000. At what price must he sell it to get a profit of shs. 25,000?

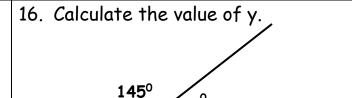
10. What distance does a cyclist cover at a speed of 60km/hr for 3 hours?



- 11. Write 116 in Roman numerals.
- 12. Work out;  $98 + 12 \times 3$

- 13. Find the least number of bags that can be given to either 8 boys or 9 boys leaving no remainder.
- 14. Apply Bodmas to work out.  $\frac{1}{2} \frac{1}{4} + \frac{1}{3}$

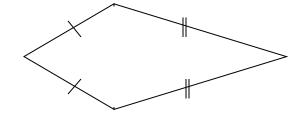




17. Arrange 
$$\frac{2}{3}$$
,  $\frac{1}{4}$ , and  $\frac{1}{2}$ , starting with the biggest.

19. Convert 
$$101_{five}$$
 to base ten.

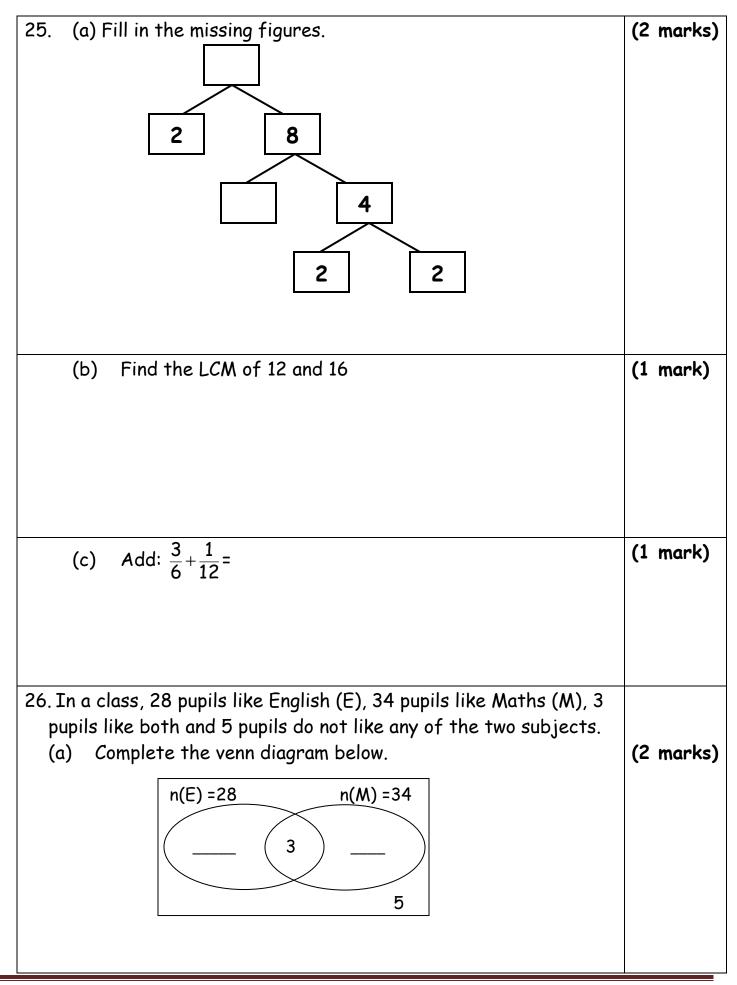
20. Indicate the lines of folding symmetry on the shape below.



SECTION B (12 QUESTIONS - 60 MARKS)

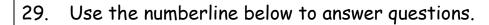
SCOTTOTA D (12 GOLOTIONS OF MARKS)	
21. (a) Write 295 in words.	(2 marks)
(b) Expand 525 using;	
(i) values	(2 marks)
(ii) powers of 10	(2 marks)
22. (a) Find the product of 234 and 25.	(2 marks)
(b) Use long division to divide 187 by 11	(2 marks)

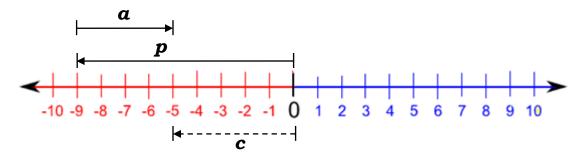
23. In a group of 450 people, $\frac{3}{5}$ are males and the rest are females. (a) Find the fraction of females	(2 marks)
(b) How many females are in the group?	(3 marks)
24. Given that m = 5, y = 4 and k = 2, find the value of;	
(i) myk =	(2 marks)
(ii) 6y+m =	(2 marks)
(iii) <sup>7</sup> / <sub>k</sub>	(2 marks)



(b) How many pupils like only one subject?	(1 mark)
(c) How many pupils do not like English?	(1 mark)
27. Given the shape below, use it to answer the questions that follow.  9mm 4mm n	
(a) Find the value of ;  (i) n (ii) m	(2 marks)
(b) Name the shape	(1 mark)
(c) Find the area of the shape.	(2 marks)

28.	Tabitha went to the market and bought the following items.  2 packets of spaghetti at shs. 3000 each.  2kgs of sugar at shs. 3200 each.	
	4 shopping bags at shs. 700 per bag.	
	3 rulers at shs. 1500	
	(a) How much was her total expenditure?	(4 marks)
		(2)
	(b) If she went with a twenty thousand shilling note and bought all the items, what was her change?	(2 marks)

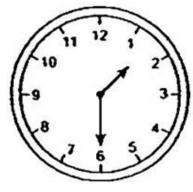




(a) Find the value of;

(i) 
$$c =$$
\_\_\_\_\_





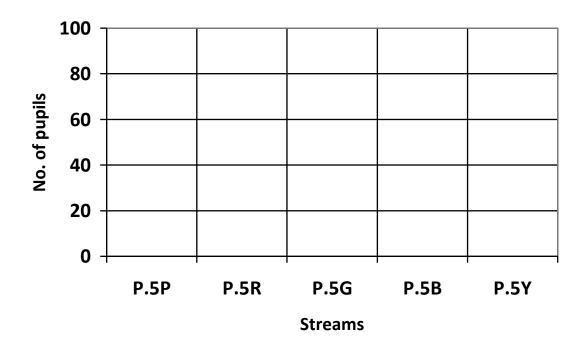
(2 marks)

31.	(a) Construct a triangle XYZ where XY = 7cm, angle ZXY = $60^{\circ}$	(4 marks)
	and XZ = 5cm.	
	(b) Measure line YZ	(1 mark)

32. The table below shows the number of wrappers distributed to the 5 streams of primary five.

Stream	P.5P	P.5R	P.5 <i>G</i>	P.5B	P.5Y
No. of pupils	70	90	50	70	40

(a) Represent the above information on a bar graph below.



(b) If the wrappers were to be distributed equally to all the above streams, how many wrappers would each stream get?

(1 mark)

(5 marks)

#### **SET TWO**

### SECTION A - (40 MARKS)

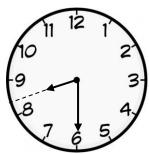
1. Work out: 2 4 x 2

Set A = { a, b, c, d}
 B = { a, e, I, o, u}. Find A∪B.

3. What is the value of 7 in 9752?

5. Jonathan had sh. 20,000 and used  $\frac{2}{5}$  of it for buying cakes. How much money did he remain with?

6. Tell the morning time shown on the clock face below.



7. Mr. Kagoro bought a radio at shs.50,000 and sold it at shs.56,000. Calculate his profit.

8. Draw a line segment AB = 6cm.

9. Express  $141_{\text{five}}$  in base ten.

10. Work out: 6.2 + 3.4 - 4.7

11. Kamya borrowed 39 books from the library. Write the number of books he borrowed in Roman Numerals.	12. Given that P = 4 and Q = 7. Find the value of $\frac{PQ}{2}$
13. Change 3 metres to centimeters.	14. Calculate the size of angle K.  K  680
15.Multiply: 3 6 x 1 2	16. Jackson covered a certain Journey at a speed of 60km/hr for 4 hours. Find the distance he covered.
17. Find the number which was prime factorized to get, 2 × 2 × 3 × 3.	18. What integer is three steps to the left of +3?

19.Subtract:	$\frac{2}{3}$ from	$\frac{3}{4}$
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20. Find the range;

6,7,5,9,1 and 0.

## SECTION B - (60 MARKS)

21. The table below shows the daily attendance of <u>60</u> pupils of a P.5 class in a certain school.

(1 mark @)

(a) Complete the table correctly.

Day	M	T	W	٢	F
Present	48		50		42
Absent		00		14	18

(b) Work out the average attendance for the whole week.

(2 marks)

22.	Fill	in the	missing	number.
		÷ 6	= 7	

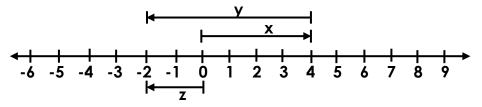
(2 marks)

(2 marks)

(c) Simplify: 
$$3m + 4h + 2m + h$$

(1 mark)

23. Study the numberline below and answer questions that follow.



(a) What integers are represented by;

(i) Y = \_\_\_\_\_

(1 mark @)

- (ii) X = \_\_\_\_\_
- (iii) Z = \_\_\_\_\_

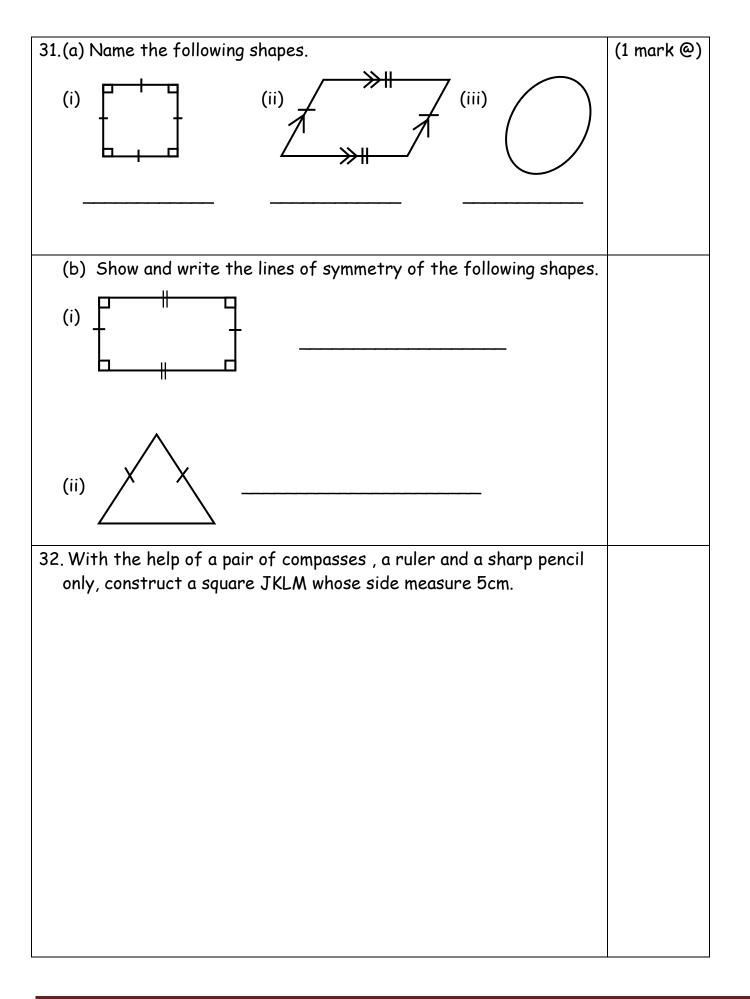
(1 mark)

<ul> <li>24. Magala went to the shop and bought the following items.</li> <li>2kg of sugar at shs. 4500 per kg.</li> <li>1 kg of salt at shs.1200.</li> <li>3 books at shs.2000 each book.</li> <li>1 pen at shs. 1000.</li> </ul>	
(a) Find his total expenditure.	(4 marks)
(b) If he was given change of Shs.2800, how much money did he give to the shopkeeper?	(2 marks)
25. (a) Find the sum of 5 4 7 8 9 4 and 2 6 2 1 0 3.	(2 marks)
(b) Work out: $\sqrt[3]{480}$	(2 marks)

26. Given that A = { 1 , 3 , 5 , 7 , 9} B = { 1 , 2 , 4 , 6 , 8}	
(a) Represent the above information on the venn diagram below.  A B  O B  O B  O B  O B  O B  O B  O	(3 marks)
(b) Find (i) A∩B	(1 mark)
(ii) ∩ (A∪B)	(1 mark)
27. Work out:  (a) Years months  5 3  + 2 9	(2 marks)
(b) Hours minutes 4 25 + 6 15	(1 mark)

(c) Change 24 days to weeks.	(2 marks)
28. The figure below is a rectangle.	
6cm 42cm	
(a) Calculate the area of the figure.	(2 marks)
(b) Find the perimeter of the figure.	(2 marks)
29. In a group of 48 people, $\frac{2}{3}$ of them eat rice and the rest eat	
matooke?	
(a) Find the fraction of the people who eat Matooke.	(2 marks)

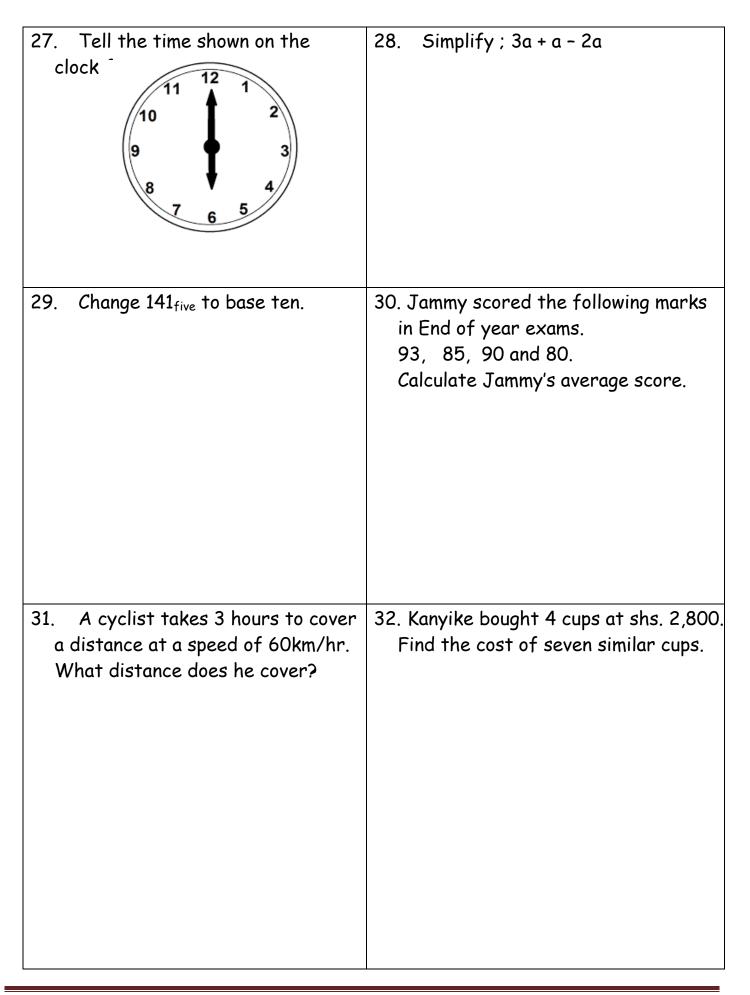
(b) How many people eat rice?	(2 marks)
(c) How many more people eat rice than Matooke?	(2 marks)
30. Given the number 30127.  (a) (i) Find the value of the digit in the Hundreds.	(2 marks)
(ii) Expand the above number using place values.	(2 marks)
(b)Write XLIX in Hindu Arabic numerals.	(2 marks)



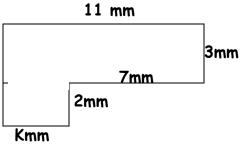
# SET THREE

## SECTION A (20 QUESTIONS - 40 MARKS)

	TEOTY N (ED QUED TEOTY TO	11/11/11/10	<u> </u>
21.	Take away; 7 - 2		Vrite 448 in words.
	If one book costs shs. 500. How any books will Kalungi buy with	24. <i>C</i>	onvert 8 metres to cm.
	ns. 5,000?		
	Find the least number that can e divisible by either 8 or 12 aving no remainder.		set A = {a, e, i, o, u}. How many sets are in set A?



33. Study the shape below and find the value of K.



34. How many half litre cups can be used to fill a 20 litre jerrycan?

35. Study the table below and fill in the missing information.

Weeks	1		6
Days	7	21	

36. Write the Roman numeral for 100.

37. With the help of a sharp pencil, ruler and pair of compasses only, construct an angle of 60°.

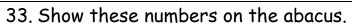
38. Sanyu bought a bag at shs. 25,000. She later sold it at shs. 28,000. Find her profit.

39.	Apply	BODMAS	correctly

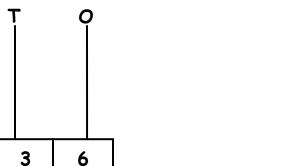
9 x 4 + 2

40. Write the additive inverse of -12.

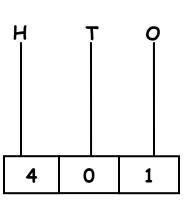
# SECTION B (12 QUESTIONS - 60 MARKS)



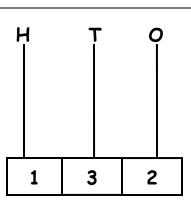
(a) 36



(b) 401



(c) 132



(2 marks)

(2 marks)

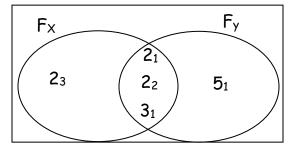
(2 marks)

	<b>n(Art</b>		sic) =40	
(a)	Complete t	the above venn dic	agram.	(2 mark
(b)	How many	people enjoy both	subjects?	(2 mark
(b)	How many	people enjoy both	subjects?	(2 mark
(b)	How many	people enjoy both	subjects?	(2 mark
		people enjoy both  le below correctly  Frequency		
	olete the tab	le below correctly	/.	(2 mark
	olete the tab	le below correctly Frequency	/. Tally	
	olete the tab  Mark  70	le below correctly Frequency	Tally	

36.	Use the	magic s	square b	elow to answer the questions that		
	follow.	_		_		
	8	a	6			
	Ь	5	α			
	4	d	e			
	Find the			I S.	(5	marks)
fe	In a villagemales.			e, $\frac{4}{5}$ are males and the rest are emales.	(2	marks)

(d) Find the actual number of ;			
(i) males	(ii) females	(4	marks)
38. (a) With the help of a sharp pen		(4	marks)
Construct a triangle ABC where	line AB = $7$ cm, angle BAC = $90^{\circ}$		
and line $AC = 5$ cm.			
(c)Measure line BC		/1	mark)
(c)Measure line bc	<del></del>	(1	mark

39. Use the venn diagram below to answer questions that follow.



(a) Find the value of;

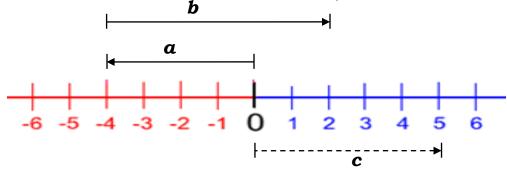


(4 marks)

(b) Find the G.C.F of  $F_x$  and  $F_y$ 

(1 mark)

Use the numberline below to answer questions. 40.



(c) Identify the integer represented by arrow;

(ii) 
$$a =$$
\_\_\_\_\_ (iii)  $b =$ \_\_\_\_\_ (iii)  $c =$ \_\_\_\_\_

(6 marks)

41.	$\frac{1}{2}$ kg 3 bar	went to the market and bought the following items.  of sugar at shs. 3,800 a kg.  rs of soap at shs. 2500 each  natoes at shs. 2,000.		
	(a)	Find his total expenditure.	(4	marks)
	(b)	If he received a change of shs. 8,600, how much money did he give the attendant?	(1	mark)
42.		engo had some books and was given 7 more books. If he as 13 books now, how many books did he have at first?	(2	marks)

(b) Given that p = 3, q = 9 and r = 2, find the value of; (iv) pqr =	(1 mark)
(v) <del>qr</del> <del>2p</del>	(1 mark)
43. Find the unknown values in degrees.  (a)   75°   55°	(2 marks)
(b) K Z1 70°	(2 marks)

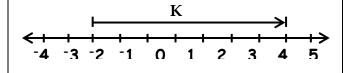
44.	Kengo covered the floor using a carpet measuring 9m by 5m.	
	5m 8m	
	9m	
	12m	
	Work out the area of the;	(1 m ands)
	a) carpet	(1 mark)
	b) floor	(1 mark)
		(= 1114111)
	c) uncovered part	(2 marks)

## **SECTION A - (40 MARKS)**

1. Divide:  $4 \div 2 =$ 

2. Write in figures: Two thousand, four hundred sixty one.

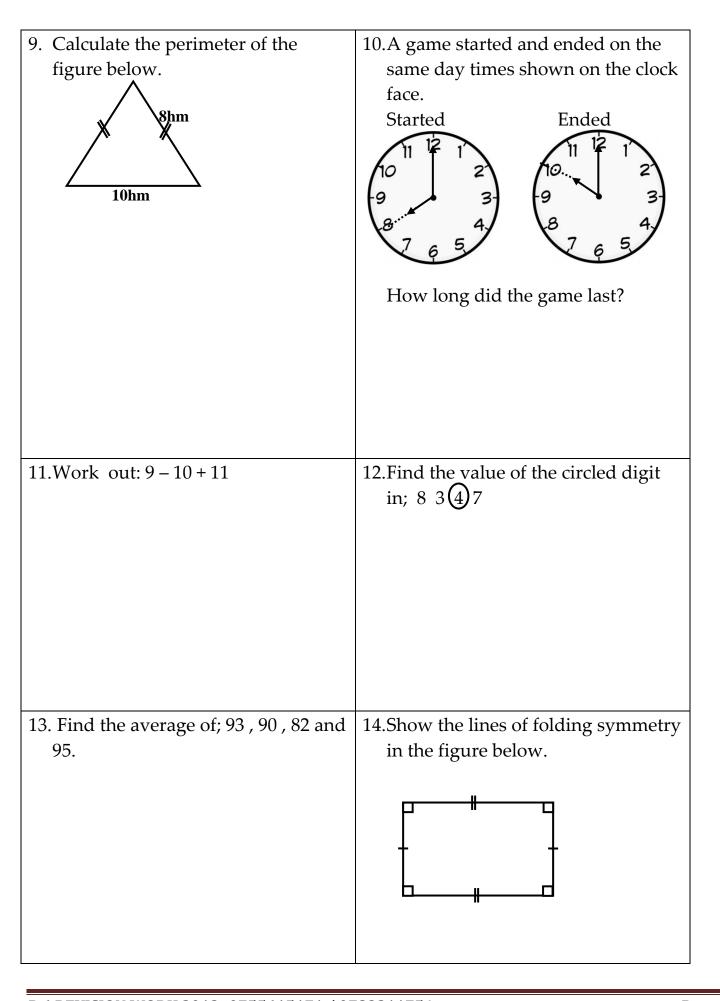
3. Name the integer represented by the arrow marked K.



4. Write down the first five even numbers.

- 5. Simplify: 8y + 7p 3y + 2p.
- 6. Given that A = { c , a , t} , find the number of subsets of set A.

- 7. Write 95 in Roman numerals.
- 8. The buying price of a book is sh.3000. A trader makes a profit of sh.500 on selling it. Find the selling price.



15. Fill in the missing numbers in the boxes. $ \begin{array}{c c} 3 & 4 \\ \hline  & x & 1 &  \\ \hline  & 6 & 8 \\  & +  & 4 &  \\ \hline  & 4 & 0 & 8 &  \\ \hline \end{array} $	16.Using a pair of compasses, ruler and a sharp pencil only, construct an angle of 60°.
17. David ate $\frac{1}{4}$ of the cake. His sister ate $\frac{2}{3}$ of the cake. What fraction of the cake remained?	18.Given that represents 12 trees, draw pictures to represent 60 similar trees.
19.Work out: 18.99 – 0.29	20.Find the next two numbers in the sequence. 21 , 24 , 27 , 30 , ,

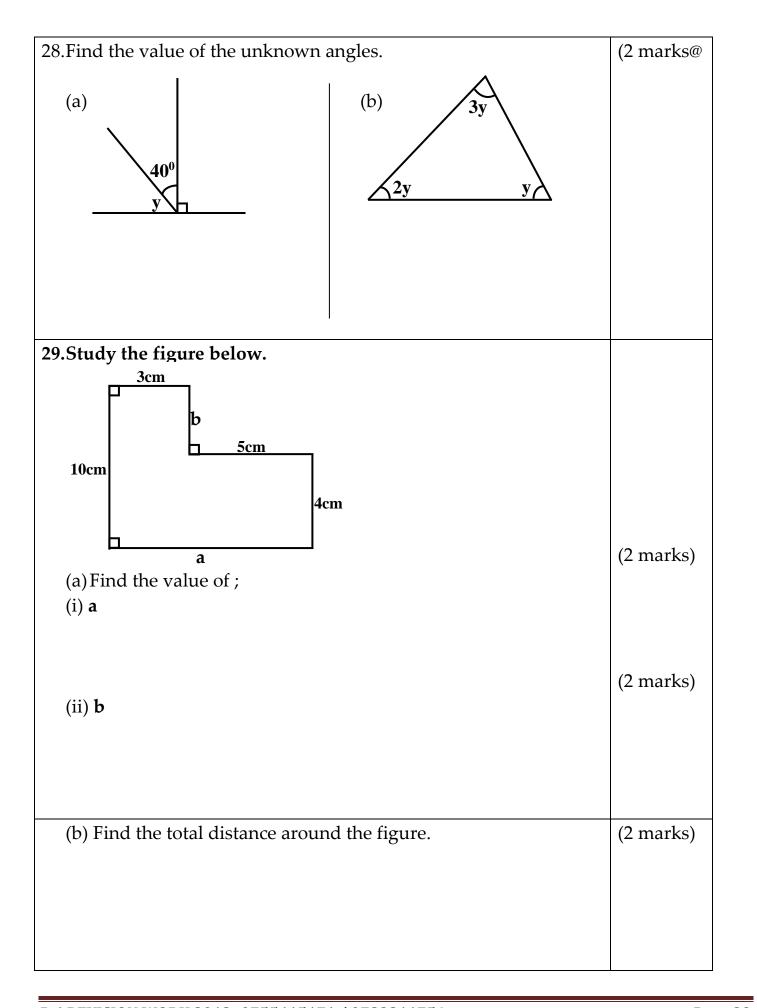
### **SECTION B – (60 MARKS)**

SECTION B (00 IVIII			1
21. Work out:			(2 marks@)
(a) 4 6 7 8	(b) 3 0 2	(c) $5)670$	
<u>-1249</u>	<u>x 1 4</u>		
	<del></del>		
22.Rihana bought the			
3 kg of onions at sh			
$1\frac{1}{2}$ kg of peas at sh.	3000 per kg.		
1kg of rice at sh. 80	00.		
(a) How much w	as her total expenditu	re?	(2 marks)
			(2 marks)
(b) If she had a fi change?	fty thousand shilling r	note, how much was her	(2 marks)

23.Given that set;	
$M = \{0, 1, 2, 3, 4, 5, 6, 7, 8\}$	
$N = \{0, 2, 4, 10, 12, 14\}$	
	(2 marks)
(a) Show the above sets on the venn diagram below.	
MN	
(b) Find the members of set;	
(i) M only	(1 marks)
	(1 mark)
(ii) N ∪ M	(1 11101111)
24. Solve: (a) $y - 7 = 6$	(2 marks)
21.561ve. (a) y 7 6	(2 marks)
m	(2 marks)
(b) $\frac{m}{3} = 30$	(Z IIIaIKS)

A bus leaves travel time ta	-	nja via Mukono as shown o	n the
Town	Arrival	Departure	
Kampala		8:00 am	
Mukono	9:30 am	10:00 am	
Jinja	12:00 noon		
(c) At what ti (i) Leave Kaı	ime does the bu mpala	s;	(1 mark
(ii)Arrive at Jinja			(1 mark
(d)How long does the bus stay at Mukono?			(2 mark
(e) Find the total time the bus spends on the whole journey.			ney. (2 mark

26.With the help of a sharp pencil, a ruler and a pair of compasses	(4 marks)
only, construct a regular hexagon in a circle of radius 3cm.	
27. Musimenta had 360 birds on her farm. $\frac{3}{5}$ were layers while the	
rest were broilers.	
(a) What fraction of the birds were Broilers?	(2 marks)
(b) How many layers were on the farm?	(2 marks)
(c) How many more layers were on the farm than broilers?	(2 marks)



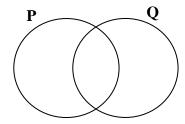
30.Work out:		(2 marks@
(a) 1 0 1 two	(b) 1 0 2five	
_ + 1 two_	3 4 five	
(c) Express 12ten in base five.		(2 marks)
31. Given the prime factors on the ve	nn diagram below.	
X Y		
$ \begin{array}{c c} \hline 2_1 & 3_1 \\ 3_2 & 5_1 \end{array} $		
(c) Find the value of:		
(i) X		(1 mark)
(ii) Y		(1 mark)
(d)Work out the greatest commor	n factor of <b>X</b> and <b>Y</b> .	(2 marks)

32.Magezi scored the following marks in mid-term exams.	
Maths 94	
Science 86	
SST 80	
English 86	
RE 44	
(a) Find the average.	(2 marks)
(b)The median score.	(1 mark)
	(4 1 )
(c) The modal score.	(1 mark)
(d) The area del from an are	(1 ma a = 1-)
(d)The modal frequency.	(1 mark)

### **SET FIVE**

### **SECTION A (20 QUESTIONS – 40 MARKS)**

1. Add: 341 + 125 2. On the Venn diagram below, shade set  $P \cap O$ 



3. Find the sum of the next two numbers in the sequence.

1, 3, 6, 10, \_\_\_\_, \_\_\_\_

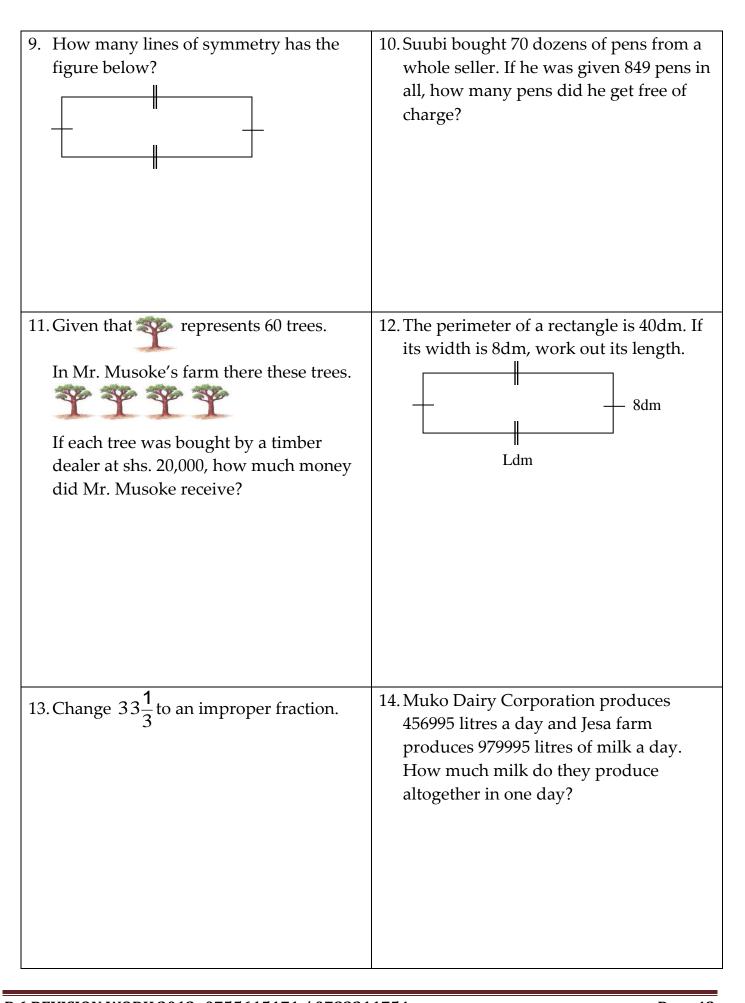
4. Think of a number and multiply it by four. The answer is 28. What is the number?

5. Arrange the following integers starting with the smallest.

-3, 0, +4, -6, 2

6. A farmer bought a goat at shs. 105,000 and sold it at a loss of shs. 11,000. How much did he sell the goat?

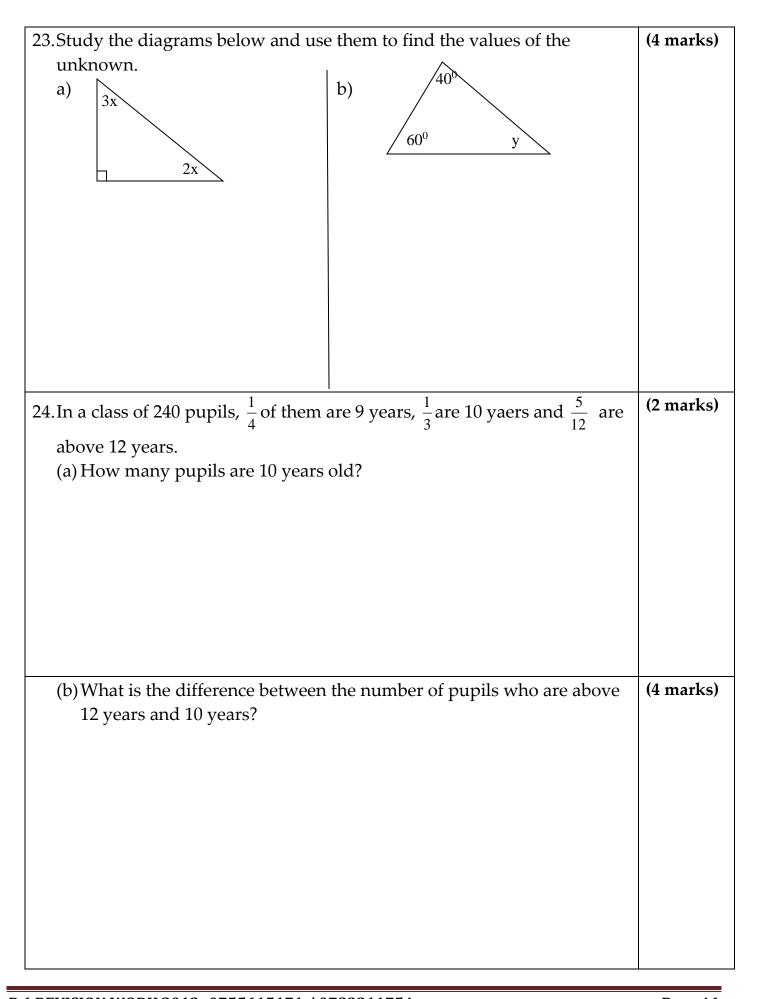
- 7. A church service which took 1 hour and 45 minutes ended at 12:00 noon. When did it begin?
- 8. Find the sum of the value of 6 and the place value of 0 in the number 34106

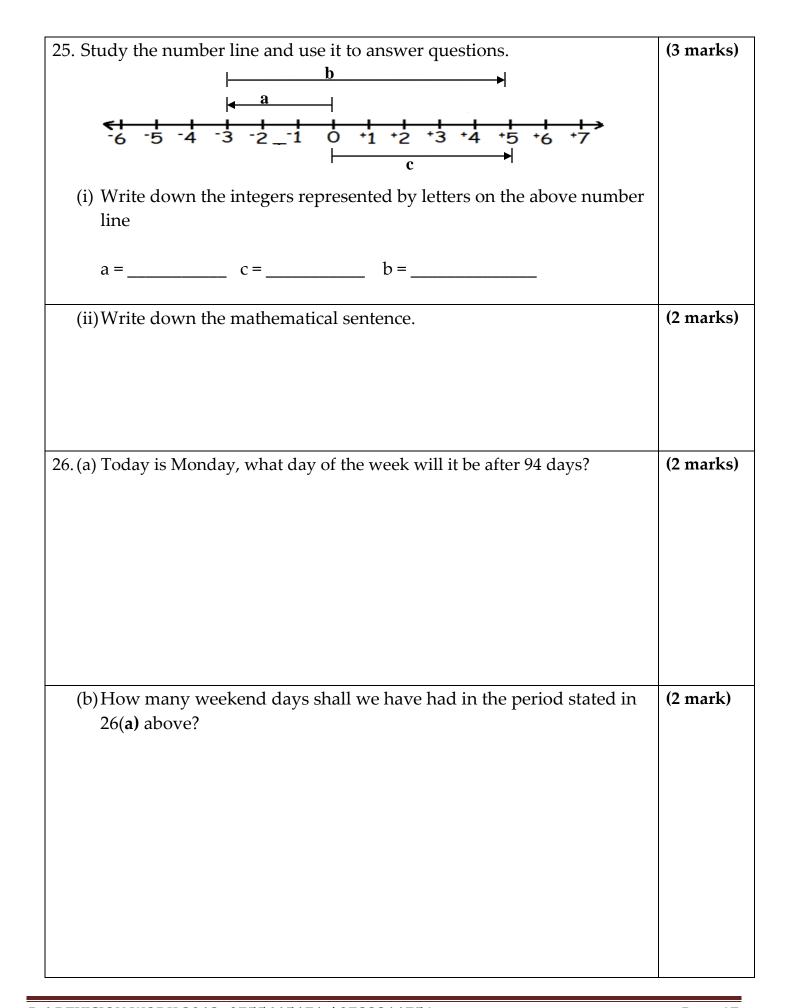


15. Write the amount of money on the cheque in words.				
Pay Original Only  10/07/2008  Cheque No. Sort Code Account No.	Shs. 99,055  FOR AND ON BEHALF OF AFS RE CASH-CUT			
16. Lydia collected 80 litres of milk from her findid she collect?	farm. How many half litre packets of milk			
17. Nantamu obtained the following marks in a series of tests; 15, 10, 25, 15 and 20. Calculate her range of marks.	18. Find the square root of 196.			
19. Rose is 7 years old. Write her age into base five.	20. A plastic Coca cola bottle of soda of 500ml costs shs. 2000. What is the cost of every 2ml of that soda?			

## SECTION B (12 QUESTIONS – 60 MARKS)

SECTION D (12 QUESTIONS OF WINKING)		
21.In a class of 40 learners, $\mathbf{X}$ like Fish ( $\mathbf{F}$ ), 24 like meat ( $\mathbf{M}$ ) and $\mathbf{y}$ learners		
do not like any of the two delicacies. 5 learners like both Fish and Meat.		
(a) Complete the above venn diagram		
$n(\Sigma) = 40$		
$n(F) = X \qquad \qquad n(M) = 24$		
13 ()		
(b) Find the value of y.	(2 marks)	
( ) TATE ( ) (1	(2 1 .)	
(c) What is the probability that when a leaner is picked from those 40	(2 marks)	
learners, that leaner likes only one delicacy?		
22.(a) Kamya went to the market and bought 10 goats for shs. 650,000 and	(3 marks)	
5 sheep for shs. 600,000. Which of the two types of animals was more		
expensive?		

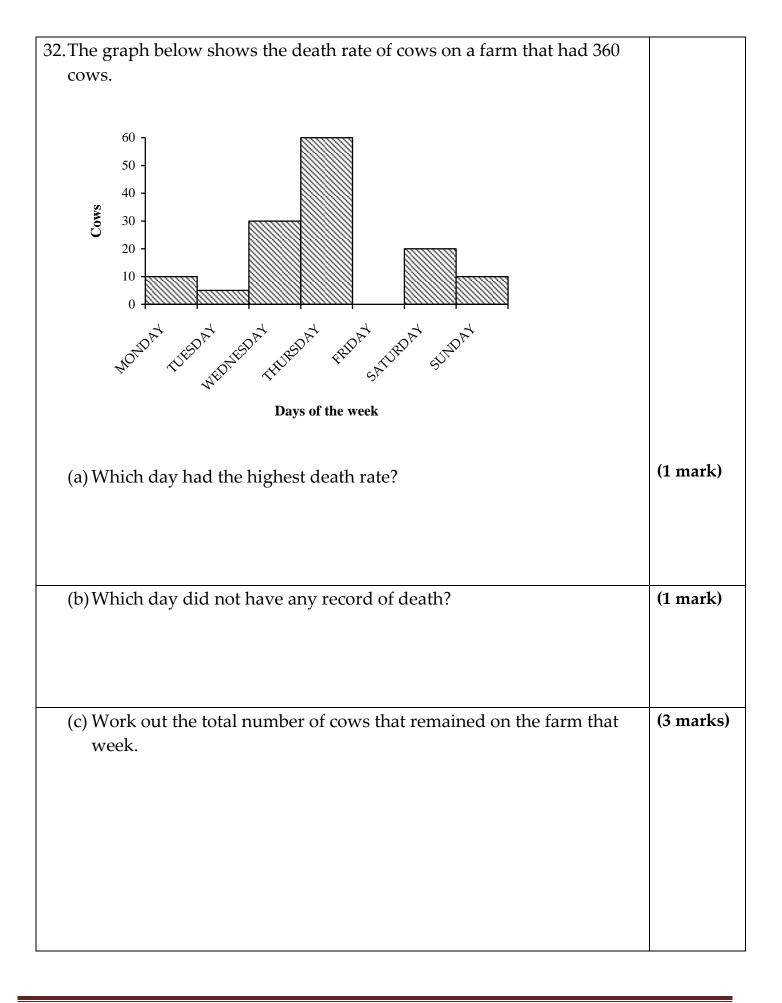




27.(a) Using a ruler, pencil and a pair of compasses only, construct an isosceles triangle ABC such that AC = BC = 4cm and AB = 5.5cm.	(4 marks)
b) Measure angle ABC	(1 mark)
28. The figure below is of a cuboid.  9cm (a) How many vertices does the cuboid have?	(2 marks)
(b) Work out the total surface area of the cuboid above.	(3 marks)

(c) Work out the volume of the shape.	(2 marks)
29. Ruth was asked to prime factorise 20 and 30.  (a) Represent her answers in a Venn diagram.	(3 marks)
$F_{20}$ $F_{30}$	
(b) From the Venn diagram, find the GCF of 20 and 30	(2 marks)
30.(a) Given that $x = 6$ , $y = 4$ and $z = 3$ . Work out the value of  (i) $3x + z$ (iii) $4(x + y)$	(2 marks)
(b) Work out $\frac{1}{3} \times \frac{1}{2}$ using a diagram.	(2 marks)

Item	Quantity	Unit cost	Total	
Soap	3 pairs	Shs	Shs. 2,400	
Sugar	2kgs	Shs	Shs. 6,400	
Omo	sachets	Shs. 400	Shs. 1,600	
Bread	3 loaves	Shs.	Shs	
	Total Expenditu	•	Shs. 17,000	
(a) Fill in to	complete the table			(4 ma)
(a) Fill in to	complete the table.			(4 mar
(b) If he had	gone with shs. 50,00	0. Calculate his	balance.	(1 mai
(b) If he had	gone with shs. 50,00	0. Calculate his	balance.	(1 mai
(b) If he had	gone with shs. 50,00	0. Calculate his	balance.	(1 mai
(b) If he had	gone with shs. 50,00	0. Calculate his	balance.	(1 mai
(b) If he had	gone with shs. 50,00	0. Calculate his	balance.	(1 mar



# SET SIX

## SECTION A:

1. Work out: 2 5

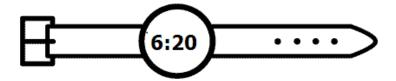
2. Expand 485 using values.

3. Using a pair of compasses, a ruler and a sharp pencil only, construct an angle  $0f\ 120^{\circ}$ .

4. Given that  $A = \{a, b, c\}$ . Find the number of proper subsets in set A.

5. Find the median of the following numbers.

6. Write the morning time on the digital clock in words.



7. Convert 103<sub>five</sub> to base ten.

8. Find the sum of the next two numbers in the sequence.

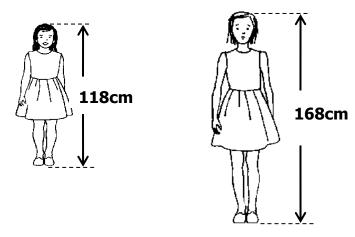
4,6,8,10,12,\_\_\_\_,

9. Use a number line to work out;

<sup>-</sup>6 + <sup>+</sup>5

10. Solve the equation: 2(x + 7) = 16

11. The pictures below show the height of two girls.

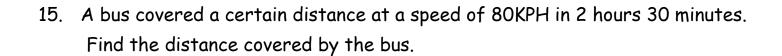


Express the difference in their heights in Roman numerals.

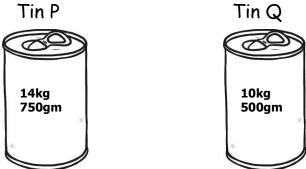
12. Find the smallest number which can be divided by 8 or 6 and leaves 5 as the remainder.

13. Work out: 7)1414

14. Given that a = 10 and b = 2. Find the value of a + (a - b)



16. Below are tins of different masses.

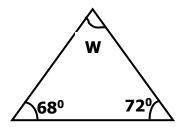


Find the total mass of the two tins in kg and g.

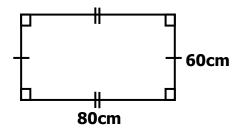
17. Betty bought a goat at sh.68, 000 and later sold it at sh.98, 000. Find the profit she made.

18. Annet had  $\frac{2}{3}$  of the cake in the morning and ate  $\frac{1}{4}$  of it in the afternoon. What fraction of the cake remained?

19. Find the size of the angle marked W.



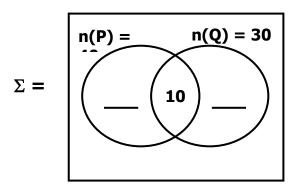
20. A spider moved around the rectangular shape below twice.



Find the total distance it covered altogether

## **SECTION B**

- 21. Given that n(p) = 40, n(Q) = 30 and n(PnQ) = 10
  - (a) Use the information to complete the venn diagram



(2 marks)

(b) Fin  $n(P \cup Q)$ 

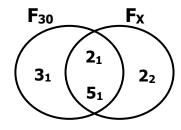
(2 marks)

- 22. Given the number 8,736.
  - (a) Find the value of the digit in the place value of hundreds. (2 marks)
  - (b) Find the sum of the value of 8 and the value of 3 in the above number. (2marks)

(c) Round off 8736 to the nearest thousands.

(1 mark)

23. The venn diagram below shows the prime factors of 30 and x.



(a) Find the value of x.

(2 marks)

(b) Find the LCM of 30 and x.

(2 marks)

(c) Find the GCF of 30 and x.

(2 marks)

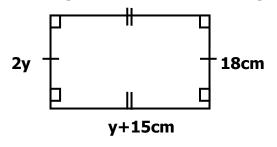
24. Solve the following equations;

(i) 
$$\frac{y}{12} = 15$$

(ii) 2m - 3 = 16

(3 marks)

25. The figure below is a rectangle.



(a) Find the value of y.

(2 marks)

(b) Work out the actual length.

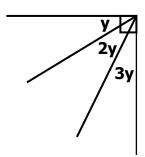
(1 mark)

(c) Find the area of the rectangle.

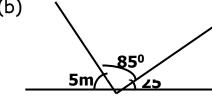
26. Find the value of the unknown angles.

(2 marks @)

(a)



(b)



27. Banza went shopping with a twenty thousand shilling note and bought the following;

2 kg of Rice at sh. 4000 per kg.

800gm of sugar at sh. 3000.

20 tomatoes at sh. 1000 for every 5.

(a) How much did he spend altogether?

(4 marks)

(b) If he used Sh. 2000 for transport on boda-boda, how much money did he remain with? (2 marks)

- 28. In a village of 4000 people,  $\frac{2}{5}$  of them are males and the rest are females.
  - (a) Find the fraction of females.

(2 marks)

(b) How many males are in the village?

(2 marks)

(c) If  $\frac{3}{10}$  of the males are boys and  $\frac{1}{2}$  of the females are girls, how many children are in the village. (2 marks)

29. Peter scored the following marks in 6 subjects.

50,60,40,75,85,60

(a) Find the range of the marks.

(b) What was his modal mark?

(1 mark)

(c) Calculate his average mark.

(2 marks)

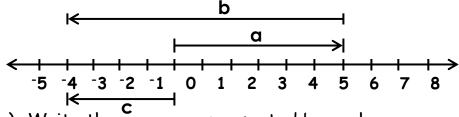
30. Work out:

(2 marks @)

(a) 1 2 3 four + 1 1 four

(b) 1 0 1 two  $\times$  1 0 two

31. Study the number line below and answer questions that follow.



(a) Write the .... eger represented by each arrow. (1 mark @)

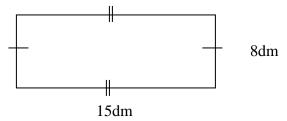
b =

a =

(b) Write the mathematical statement shown by the number line.

32.	(a) Using a pair of compasses ABCD of side 6cm.	s, a pencil and a ruler only	, construct a square (4 marks)
	(b) Measure diagonal AC.		(1 mark)
1. M	TION A – (40 MARKS) fultiply; 7 × 2	SET SEVEN	
2. N	Tame the set symbol;		

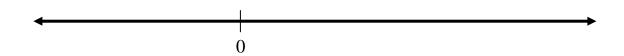
3. Maria walked round the figure below three times. Calculate the total distance she covered.



- 4. Find the missing number in the sequence 10, 19, 18, 27, 26, \_\_\_\_\_
- 5. A primary five pupil who is in boarding spent  $\frac{3}{8}$  of her day packing school items,  $\frac{1}{8}$  sending goodbye messages and the remainder of the day resting. For how many hours did this pupil rest?

6. John who owns a retail shop, bought a dozen of counter books at shs. 36,000. He sold each book at shs. 4,000/=. How much profit did he make?

7. Add; -4 + 7 = \_\_\_\_\_ with the help of a well drawn number line.

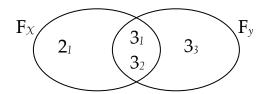


- 8. In a class, there are 48 boys. If 12 boys were absent on Monday. Express the number of boys present in Roman numerals.
- 9. A bag contains 8 blue pens and 6 red pens. If a primary six boy is chosen to randomly pick a pen, what is the probability of him picking a red pen?
- 10.Use > , < or = to complete correctly.

$$3^2 + 2^2$$
  $3^2 \times 2^2$ 

11. With the help of a sharp pencil, ruler and pair of compasses only, construct an angle of 45°.

12.Study the venn diagram below and find the LCM of  $F_{x}$  and  $F_{y}$ .



13. Change 120 minutes into hours.

- 14. What is the place value of 6 in 463.21?
- $15.Add: 3 + 4 = \underline{\hspace{1cm}} \pmod{5}$

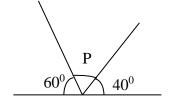
16. Apply Bodmas correctly;

$$\frac{2}{3} - \frac{5}{6} + \frac{1}{4}$$

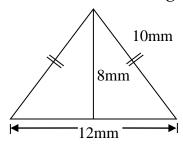
17. Given that six books cost shs. 7,200. How many similar books can one get from shs. 6,000?

18. Solve; 
$$K + K = 18$$

19. Find the value of P in the figure below.



20. Work out the area of the figure below.



### **SECTION B**

- 21.On a farm, there are 350 animals.  $\frac{3}{5}$  of them are cattle and the rest are goats.
  - a) How many cattle are on that farm?

(1 mark)

b) What fraction of the animals are goats?

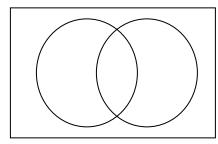
(2 marks)

c) How many more cattle than goats are on that farm?

(2 marks)

- 22.In a club of 50 members, 25 play cricket (C), 33 play Hockey (H), 'x' play both while five play other games.
  - a) Represent the above information on the venn diagram

(2 marks)



b) How many members play both games?

(1 mark)

c) How many members did not play Hockey (H)?	(1 mark)
23.Makmot scored the following scores in a series of maths tests: 40, 85, 60, 55, 70	
(a) Find the median score.	(2 marks)
(b) Work out the range of the scores.	(1 mark)
(c) Calculate the average of the scores.	(2 marks)
24.(a) Find the unknown base in; $100_x = 1100_{three}$	(3 marks)

(b) The table below shows the addition operation in base six. Complete it correctly. (2 marks)

+	3	4
2	six	$10_{\rm six}$
5	12 six	six

25.(a) With the help of a sharp pencil, ruler and pair of compasses only, construct a triangle ABC where line AB = 6cm, line BC = 4.5cm and angle ABC =  $90^{\circ}$ . (4 marks)

- b) Measure angle BAC \_\_\_\_\_ (1 mark)
- 26. Dhikula went shopping and bought the following items;

2kg of Rice at shs. 2500 per kg

 $1\frac{1}{2}$  of meat at shs. 9,000 per kg

3 packets of Royco at shs. 1200.

500g of wheat flour at shs. 3,000 per kg.

a) Calculate his total expenditure.

(1 mark)

b) If he was given change of shs. 8800, how much money did he give to the cashier? (1 mark)

27.Study the bus time table below and answer questions about it correctly.

is the sub-time there service and the sub-time there is a sub-time there is a sub-time the sub-t		
STATION	ARRIVAL TIME	DEPARTURE TIME
KWERA		7:10am
LWERA	9:10am	9:30am
BWERA	10:30am	10:45am
NYERA	12:00midday	

- a) At what time in 24 hour clock did the bus leave Kwera? (2 marks)
- b) For how long did the bus stay at Bwera? (1 mark)

c) Find the total time taken by the bus to move from Lwera to Nyera? (2 marks)

28.Given that x = 3, y = -2, and z = 5, evaluate;

(i) 
$$y^2 + x^2$$

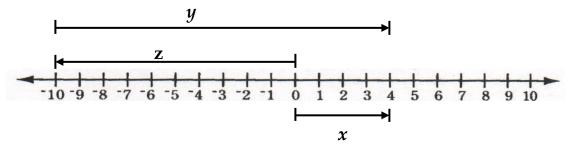
(ii) xyz

(2 marks)

(iii)  $\frac{4xz}{10}$ 

(2 marks)

29. Study the number line below and use it to answer questions that follow;

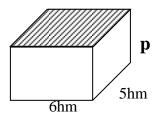


a) Identify the integers represented by arrow;

(1 mark @)

b) Write down the addition mathematical statement shown on the number line. (2 marks)

30. The volume of a cuboid below is 120hm<sup>3</sup>. Use it to answer the questions that follow.



	a) How many faces has the cuboid above?	(1 mark)
	b) Find the value of <b>p</b> .	(2 marks)
	c) Calculate its Total Surface Area	(2 marks)
31	The recently released census report showed that 6,426,013 people areas. Only 1,516,210 people were in Kampala City Authority.  (a) How many people were in other urban areas?	were in urban (2 marks)
	(b)If during the census each person in Kampala City authority recestickers. How many stickers were given out altogether?	eived two (3 marks)

32. Four girls in a primary six class of Greenhill Academy were given balls by their sports teacher as shown on the graph below.

Name of girl	Balls given		
Juliet			
Joy			
Barbra			
Cissy			

Scale represents 60 balls.

a) How many balls did Juliet get? (2 marks)

b) Who got the least number of balls? (1 mark)

c) How many more balls did Cissy get than Joy? (2 marks)

## SET EIGHT

## SECTION A (20 QUESTIONS - 40 MARKS)

1. Take away: 9 8 -7 7

- 2. Simplify: 2k + 3p k p
- 3. Given that  $a = \frac{2}{3}$  and  $b = \frac{1}{4}$ . Find the value of a b.
- 4. Use a pair of compasses to construct an angle of  $120^{\circ}$ .

5. Nambi goes to rest at the time shown on the clock face below for 2 hours. Draw a clock face showing the time she wakes up.



6. Joan read XLIX pages of a book. How many pages in Hindu Arabic numerals did she read?

- 7. The sum of two consecutive numbers is 9. Find the larger number.
- 8. A Half kilogram of Rice costs sh.2000. What will be the cost of 2kg of similar Rice?

9. Convert $33\frac{1}{3}$ to an improper fraction.	10. Find the sum of 110 <sub>two</sub> and 101 <sub>two</sub> .
11. Given that represents 10  books and represents 5  books. Draw pictures to represent 85 books.	12. R = { factors of 3}. List down all the subsets of <b>R</b> .
13. In the triangle below, find the value of p.  p+20° 60°	14. Measure the line segment below and fill in the length of PQ correctly.  P Q  PQ = mm
15. Express 1342 hours in twelve clock system.	16. Write the number that has been expanded . 20000 + 600 + 7

17. Ndahura's birthday will be
celebrated next week. What is the
probability that the day will be
starting with letter "T"?

18. A motorist covers a certain journey at 60km/hr for 3 hours 30 minutes. Calculate the distance covered by the motorist.

19. Work out: 
$$(\frac{1}{4} \text{ of } \frac{1}{3}) \div \frac{1}{12}$$

20. Draw a kite and indicate the line of symmetry.

### SECTION B (12 QUESTIONS - 60 MARKS)

21.	Ketra sco	red th	ne follow	ing mo	arks in	a week	ly test.		
	Subject	Eng	Math	Scie	SST	R.E		(	(1 mark)
	Marks	75	100	75	80	90			
	(a) Calc	ulate <sup>.</sup>	the rang	ge of h	er scor	res.			
	(b) Find	the n	nodal mo	ırk.				- 1	(1 mark)

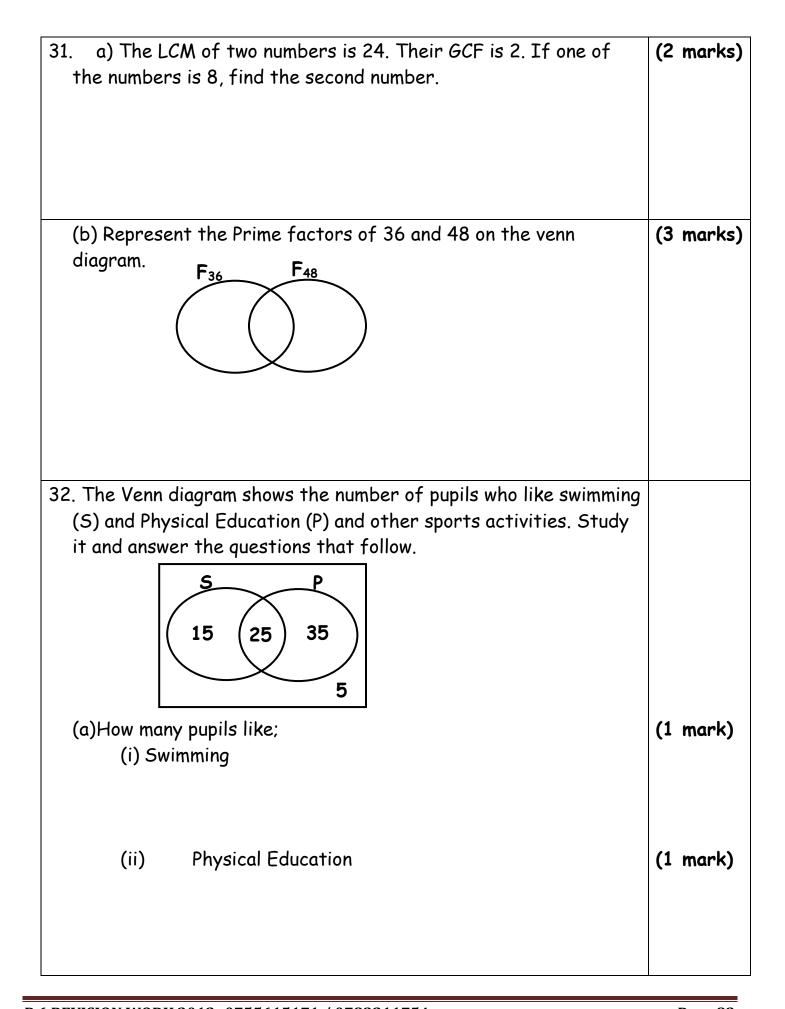
(c)	Calculate the average score <u>above</u> her modal mark?.	(3 marks)
22. a) W	rite the place value of 3 in 230 <sub>five</sub> .	(1 mark)
(b)	Write in words 122 <sub>three</sub> .	(2 marks)
(c)	Find the value of K. 21 <sub>k</sub> = 13 <sub>ten</sub>	(2 marks)
23. In	a school of 2400 pupils, $\frac{3}{8}$ of them are boys and	
the r	est are girls.	
(1) 5		(2 marks)
(a) F	ind the fraction that represents girls.	

(b) How many boys are in the school?	(1	mark)
(c) If $\frac{3}{5}$ of the girls are in upper school, how many girls are in	(2	marks)
lower school?		
24. ABCD below is a rectangle. Use it to answer questions that		
follow.		
×+7m 19m		
14m		
(a) Find the value of ;	(2	marks)
(i) × (ii) p		
(b) Calculate the area of the restands	(2	manka)
(b) Calculate the area of the rectangle.	رح	marks)

(c) Find twice the perimeter of the above rectangle.	(1	mark)
25. Find the next number in the sequence. (a) 110 , 130 , 150 , 170 ,	(1	mark)
(b) Calculate the square root of 196.	(2	marks)
(c) Work out the least common multiple of : 30 and 40.	(2	marks)
26. (a) Using a pair of compasses, a ruler and a sharp pencil, construct a triangle ABC such that BC - 8cm, AB - 6cm and angle ABC = 90°.	(3	marks)

<ul><li>(b) Measure;</li><li>(i) line AC.</li><li>(ii) ∠</li></ul>		_BCA	(2 marks)		
27.	Complete the	shopping bell.			
-	Item	Quantity	Unit cost	Amount	(5 marks)
-	Books	1½ dozen	Shs.4,000	Shs	
	Pens	dozen	Shs. 9,000	Shs. 18,000	
	Toothpaste	3 tubes	Shs	Shs. 7,500	
	Omo	1/2 kg	Shs.8,600	Shs	
			Total	Shs	
	Given the nun a) Represent	nber 4098. the number on	a well drawn al	oacus.	(1 mark)
(1	b) Round off	the above numb	er to the near	est tens.	(2 marks)

(c) Find the sum of the place value of 4 and the value of 9 in the above number.			
29. Work out correctly.			
	(2 marks)		
a) Hours minutes b) weeks days			
14 42 8 3			
<u>+ 12 28 - 2 5</u>			
(c) Express 96 minutes as hours and minutes.	(3 marks)		
30. (a) A half of a number is 24. Form an equation and find the number.	(3 marks)		
(b) What is $\frac{3}{8}$ of the same number?	(2 marks)		



ow many pupils like other sports that have not been cluded here?	(1	mark)
it is the probability of choosing a pupil who like sonly one ame to be the group leader?	(2	marks)

## <u>SET NINE</u> <u>SECTION A (20 QUESTIONS - 40 MARKS)</u>

1.	Multiply:	1	0	3	
		X		2	

2. Given that;
set A = { a , b , c , d , e , f , g}.
Find n(A)

3. Simplify: 
$$5g + 8y - 3g - 5y$$
.

**4**. Find the square root of  $\frac{225}{100}$ 

5. Work out: 
$$\frac{1}{4} - \frac{1}{8} + \frac{1}{2}$$

6. Round off 36.495 to the nearest tenths.

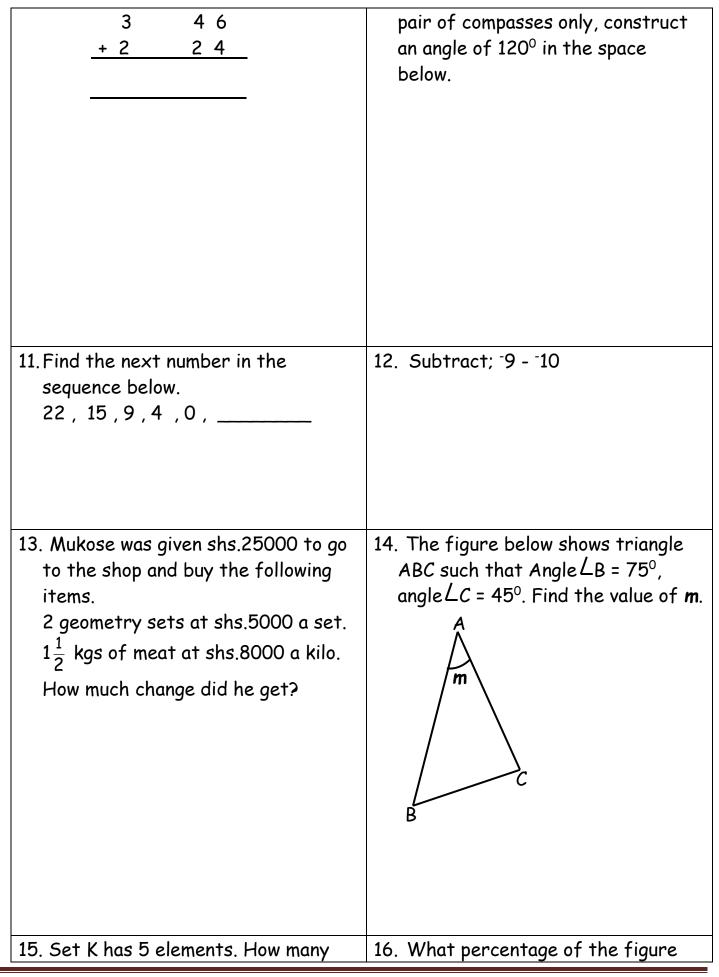
7. Magara scored the following marks in tests that marked out of 50. 15 , 10 . 15 , 30 , 35 , 40. What is his median mark?

8. The area of a rectangular garden is  $40\text{m}^2$ . Musa walked thrice around the same garden. What distance did he cover if the length is 8m?

9. Add: Hours

minutes

10. Using a ruler, a sharp pencil and



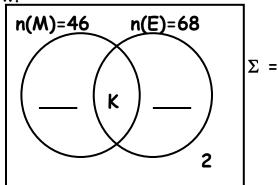
proper subsets can be formed from set K?	below is Unshaded?
17. Barigye's daughter ate $\frac{1}{3}$ of the cake on Monday and $\frac{1}{4}$ of the cake on Thursday. What fraction did she eat in two days?	18. If △ represents 19 triangles, draw the pictures to represent 95 triangles.
19. The bus covered a distance of 120km at a speed of 40km/hr. How long did the bus take to cover the distance?	20. Change 341 <sub>five</sub> to base ten.

#### SECTION B (12 QUESTIONS - 60 MARKS)

21. In a class of 100 pupils , 46 like Music (M) , 68 like English (E) and 2 like neither of the two subjects. If K pupils like both subjects,

(3 marks)

(d) Represent the above information on the Venn diagram below.



(e) How many pupils enjoy both subjects?

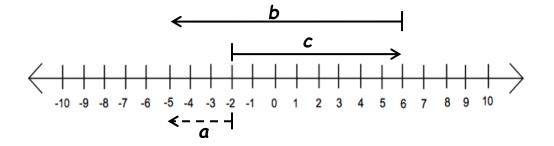
(2 marks)

22. a) Simplify:  $1 - \frac{4}{8}$ 

(2 marks)

- (b) In a school of 3500 pupils,  $\frac{3}{5}$  of them are in the nursery section and the rest are in the primary section. How many pupils are in the primary section?
- (3 marks)

23. Use the number line below to answer the questions that follow.



(a) Write the integers represented by each arrow.

(1 mark)

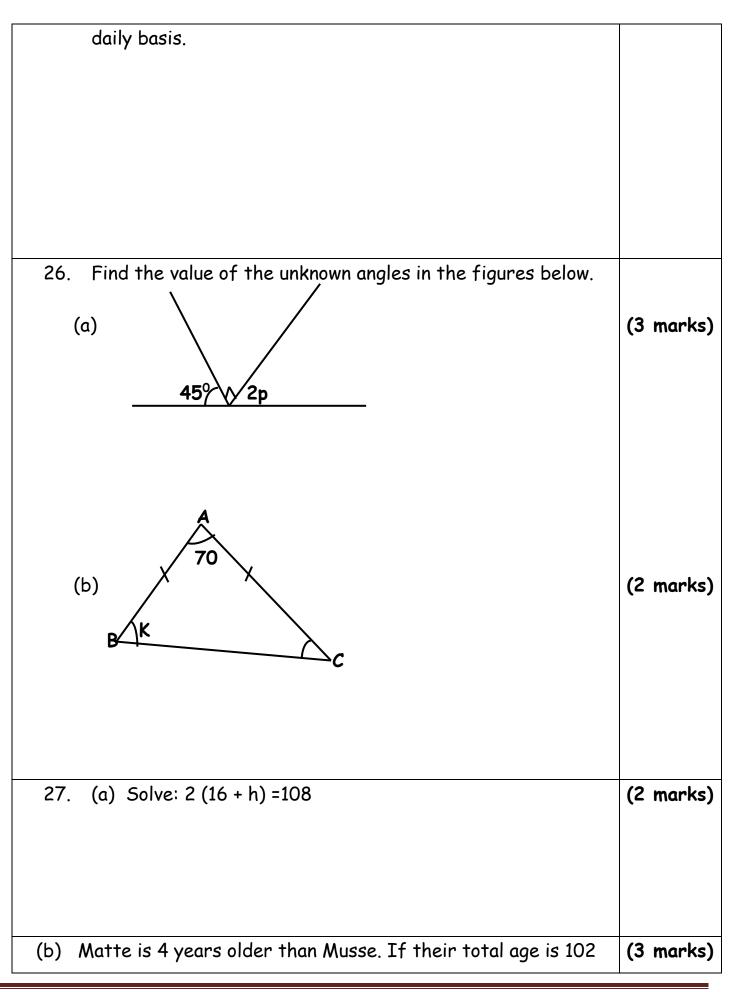
(1 mark)

(1 mark)

(2 marks)

- (b) Write the mathematical statement shown on the number line above.
- 24. Musa and Peter set alarms in their phones to wake
- (5 marks)

25. The table below shows the number of children who were immunised at Mbale Hospital against measles.    Days   Mon   Tue   Wed   Thur   Fri   Sat   Sun   No.of   50   30   70   150   60   90   110	immunised at Mbale Hospital against measles.  Days   Mon   Tue   Wed   Thur   Fri   Sat   Sun   No. of   50   30   70   150   60   90   110   children   (1 main main sed?)  (1 main main sed?)	immunised at Mbale Hospital against measles.    Days   Mon   Tue   Wed   Thur   Fri   Sat   Sun   No. of   50   30   70   150   60   90   110	minutes 30 minut	and Peter's es. If the	none made 's phone m ey made ald heir watch	ade an arms to	alarr geth	n ever er at 4	y afte 4:30a.i	r n,	
No. of 50 30 70 150 60 90 110 (1 mag)  (a) On which day was the highest number of children	No.of 50 30 70 150 60 90 110  (a) On which day was the highest number of children immunised?  (b) How many more children were immunised on Saturday than (2 mag)	No.of 50 30 70 150 60 90 110  (a) On which day was the highest number of children immunised?  (b) How many more children were immunised on Saturday than Wednesday?	immunised	at Mbale	Hospital	agains	t me	asles.		who we	ere
(a) On which day was the highest number of children	(a) On which day was the highest number of children immunised?  (b) How many more children were immunised on Saturday than	(a) On which day was the highest number of children immunised?  (b) How many more children were immunised on Saturday than Wednesday?	•								
		Wednesday?	(a) On wh	•	as the higl	hest nu	ımbeı	of ch	ildren	I	(1

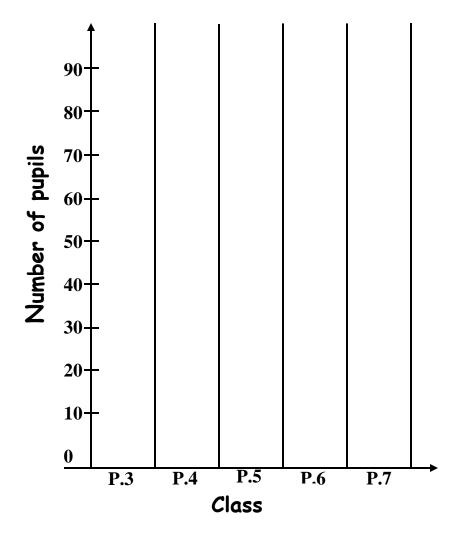


years. How old is Matte?	
28. Use a pair of compasses, ruler and sharp pencil only to construct a triangle GEF in which EF = 7cm , angle GEF = 30° and angle EFG = 128°.	(4 marks)
(b) measure $\overline{GF}$	(1 mark)
(c) Measure ∠EGF.	(1 mark)
29. Find the product of the value of 6 and the place value of 9	(2 marks)

in 846392.		
(b) Expand 1634.68 using exponents.	(1	mark)
(c) Write 803008 in words.	(1	mark)
30. Kabanda went to DFCU bank and withdrew a bundle of bank notes numbered from GH 0012349 to GH 0012450.		
(a) How many notes did he withdraw from the bank?	(2	marks)
(b) If he withdrew fifty thousand shilling notes, how much money	(3	marks)
did he withdraw?		
31. The table below shows the number of children at Katinti	(5	marks)

Primary school. Use the table to represent the information on a bar graph.

Class	P.3	P.4	P.5	P.6	P.7
Number	45	50	80	70	50
of pupils					



	Т
32.(a) The sum of three consecutive odd numbers is 135. What are the numbers?	(3 marks)
(b) Find their range.	(2 marks)

### SET TEN SECTION A:

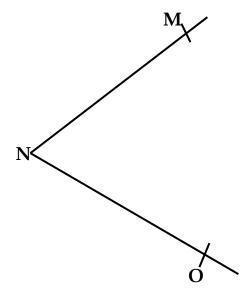
- 2.  $P = \{all vowels\}, find n(P).$
- 3. Simplify 4y 3y + y.
- 4. Write 95 in Roman numerals.

5. Simplify: 3 - 5

- 6. What is the value of 9 in 92675?
- 7. Find:  $\frac{3}{4}$  of  $\frac{1}{9}$

8. I think of a number, multiply it by 2 and add 6. The result is 40. What is the number?

9. Using a pair of compasses, a ruler and a sharp pencil, bisect angle MNO.



10. Mukiibi bought a pair of trousers at sh. 45,000. He later sold it and made a loss of sh. 7500. At what price did he sell the pair of trousers?

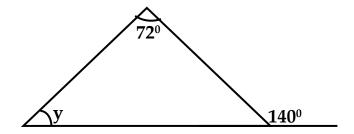
11. Change 212 five to base ten.

12. Fill in the missing number in the sequence.



14. Express 12 metres as centimeters.

15. Find the missing angle marked y.



16. Express 3:40pm in 24 hour clock system.

17. Write 694 in scientific notation.

18. Divide: 5055 by 5

19. In a class of 45 pupils, 26 are girls and the rest are boys. What fraction of the class are boys?

20. Betty used half-litre bottles to fill a tank with a capacity of 40 litres. How many half-litre bottles did she use to fill the tank?

#### **SECTION B:**

21. a) In a class of 50 pupils, 30 like Music (M), 25 like Art (A), **y** like both subjects while 3 like other subjects. Use the information to complete the venn diagram below.

$$n(\Sigma) = 50$$

$$n(M) = 30 \qquad n(A) = 25$$

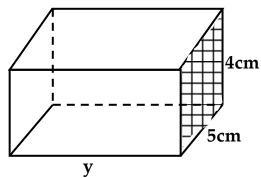
b) How many pupils like both subjects?

				-			
C)	Find the	probability	z of randomly	z choosing a	ทบทil พ	vho likes	other subjects.
$\sim$	I III CI CI C	probability	oriania	cricosing a	Papir V	viio iiives	other subjects.

- 22. The sum of 3 consecutive even numbers is 54. If the first number is x.
  - a) Find the value of x.

b) Find the numbers.

23. The figure below is a rectangular prism.



a) Find the area of the shaded part.

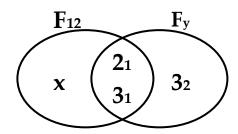
b) If the volume of the figure above is 120cm<sup>3</sup>, find the value of **y**.

24. Joan scored the following marks in a series of tests.

a) Find the mode.

b) Find the average mark.

25. Study the venn diagram below and answer the questions that follow.



a) Find the value of; (i) x

(ii) y

b) Find the GCF of 12 and **y**.

c) Find the LCM of 12 and y.

- 26. In a group of 700 members,  $\frac{2}{7}$  of them are males and the rest are female.
  - a) Find the fraction of the females.

b) If  $\frac{1}{2}$  of the males are boys and  $\frac{1}{5}$  of the females are girls. How many children are in the group?

27. Elson bought the following items.

3kg of onions at sh. 2000 per kg.

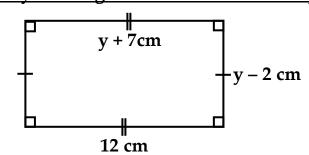
- $1\frac{1}{2}$  kg of beans at sh. 3000 per kg.
- 2 kg of meat at sh. 18000.
- a) How much was his total expenditure?

b) If he had only one note of sh. 50,000, how much money did he remain with?

28. a) Using a pair of compasses, a ruler and a sharp pencil, construct a triangle ABC such that BC = 6cm,  $\angle$ ABC = 45 $^{\circ}$  and  $\overline{AB}$  = 5cm.

b) Measure length AC.

29. Study the diagram below and answer questions that follow.



(a) Find the value of y.

- (b) Find the actual width.
- (c) Calculate the area of the figure above.

- 30. The lower and upper primary school bells ring at intervals of 30 minutes and 40 minutes respectively. They ring together at 10:00 am.
  - (a) After how many minutes will they ring together again?

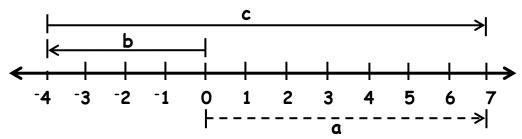
(b) At what time will the two bells ring together again?

31. Work out:

(a) 
$$\frac{3}{4} - \frac{2}{3} + \frac{1}{4} =$$

(b) 
$$1\frac{1}{7} \div 2\frac{1}{3} \times 1\frac{1}{6} =$$

32. Study the number line below and use it to answer questions that follow.



(i) Write the integers for;

a = \_\_\_\_ b = \_\_\_ c = \_\_\_\_

(ii) Write the mathematical statement shown on the above number line.

# SET ELEVEN

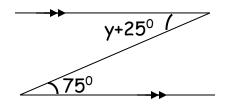
SECTION A (20 QUESTIONS - 40 MARKS)

SECTION A (EO QUESTIONS TO MARKS)					
1. Write 426 in words.	2. Write 43 in Roman Numerals.				
3. Find the unknown index in; $2^{x+1}=8$	4. One Us dollar (\$1) is equivalent to Ush. 3450. How many dollars can you get from Ush. 17,250?				

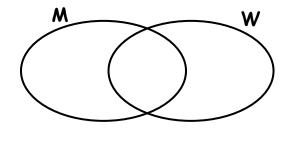
5.	With the help of a pencil, ruler and
	pair of compasses, construct an
	angle of 45°

6. Find the missing two numbers in the sequence.

- 7. The temperature of a pawpaw was measured as  $15^{\circ}C$ . When the pawpaw was put in the refrigerator, the temperature dropped by  $9^{\circ}C$ . Find the new temperature of the pawpaw.
- 8. Study the diagram below and find the value of y in degrees.



9. Shade set W on the venn diagram below.



10. Write 1269 in standard form.

11. Four fountain pens cost shs. 10,000.  How many similar fountain pens can one buy with shs. 7500?	12. Write 0.2424 as a recurring decimal.
13. Show 9:30 on the clock face below.	14. Convert 108km/hr to m/s.
10 12 1 9 • 3 8 4. 7 6 5	
15. Solve the inequality; $2x - 2 \ge 6$	16. Expand 438 using values.

17. Betty bought a dress at shs. 6,000 and sold it at shs. 7200. Calculate percentage profit.	18. Change 1200cm³ to litres.
19. Express 1 hour as a ratio to 40 minutes.	20. Find the value of K in degrees.  63°  K

## SECTION B (12 QUESTIONS - 60 MARKS)

21.	(a) Match correctly.		(4 marks)
	One hundred nineteen	1234	
	Twenty eight	119	
	Two thousand seventy	28	
	One two three base four	2070	

22. The table below shows marks scored by P.6 pupils in a	
mathematics test.	

Marks	60	30	40	80	90
Number of pupils	2	1	2	3	2

(a) How many pupils did the test?

(2 marks)

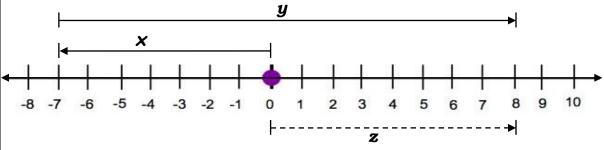
(b) What is the modal mark?

(1 mark)

Calculate the mean mark. (c)

(3 marks)

## 23. Use the numberline below to answer questions that follow.



(iii) Write the integer represented by each arrow. (3 marks)

- (a) x = \_\_\_\_\_ (b) y = \_\_\_\_ (c) z = \_\_\_\_
- (iv) Write the addition mathematical statement shown above.

(2 marks)

24.	Complete the s	hopping bill belo	OW.		(4 marks)
	Item	Quantity	Unit Cost	Total Cost	
	Sugar	3kgs	Shs. 3,200	Shs	
	Soap	bars	Shs. 2,800	Shs. 5,600	
	Meat	2kgs	Shs. 8,000	Shs	
	ТОТ	TAL EXPENDIT	URE	Shs	
				air of compasses,	(4 marks)
	nstruct a triang d angle QRP = 3		ne QR = ocm, a	ngie PQR = 90°,	

(b) Measure line PQ	(1 mark)
26. The sum of three consecutive whole numbers is 15.  (a) Find the actual numbers.	(4 marks)
(b) Find their range	(1 mark)
27. (a) Simplify; $\frac{3.6 \times 6.4}{0.024 \times 1.2}$	(3 marks)

(b) Apply BODMAS to work out; $\frac{5}{6} - \frac{3}{4} \div 1\frac{1}{2}$	(2 marks)
28. The venn diagram below shows the number of pupils who attended lessons in different subjects in a week. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(2 marks)
b) How many pupils are in that class altogether?	(2 marks)

29.	(a) Amanda has shs. 20,000. She wants to buy a toy that costs shs. 5,000. What fraction of her money will remain after buying the toy?	(3 marks)
	(b) What fraction of her money would she use if she bought two toys?	(2 marks)
30.	The circle drawn below has a diameter of 14cm. (not drawn on scale)	
	(a) Find its circumference.	(3 marks)

	(b)	Calculate the area of the circle above.	(3	marks)
31.	(a) (	Convert 23 <sub>five</sub> to base eight.	(3	marks)
	(b)	Find the unknown base in; $104_{n} = 29_{ten}$	(3	marks)

32. Study the geometric shape below and answer the questions that follow.		
y 6dm		
A 8dm		
(a) Find the measurement of line AC.	(3	marks)
(b) Work out the perimeter of the shaded figure.	(2	marks)

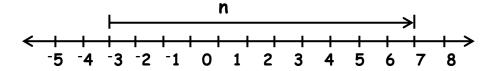
## **SET TWELVE**

## SECTION A:

1. Multiply: 13 x 3

2. Write 428 751 in words.

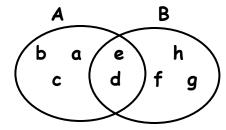
3. Name the integer represented by the arrow marked  $\mathbf{n}$ .



- n = \_\_\_\_\_
- 4. Find the square root of 144.

5. Given that y = 12, t = 8 and p = 5. Find the value of  $\frac{y-t}{p}$ 

6. Study the Venn diagram below.



List members of A'

7. Express 49 in Roman numerals.

8. Given that 1 USA dollar is equivalent to Ugshs 3500. How many USA dollars can one get from Ugshs 63000?

9. Taking pi as  $3\frac{1}{7}$ , find the circumference of a circle whose radius is 14cm.

10	Express	20mls	to	km/hr
10.	L 7 P1 633	<b>LO11113</b>	10	KIIII III .

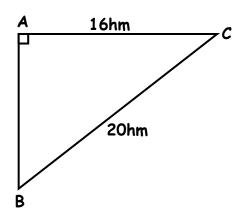
11. Kenedy saved shs 360,000 in centenary bank which offered him an interest rate of 10% p.a for 2 years. How much money did he have altogether after 2 years?

12. Find the expanded number in;

$$(9 \times 10^2) + (7 \times 10^1) + (2 \times 10^0) + (1 \times 10^{-1})$$

13. Work out the range in; 12, 2, 4 and 8.

14. Study the diagram below and find the measurement of line AB.



15. A man is 18 years older than his wife. If their total age is 68 years, how old is the man?

16. The interior angle of a regular polygon is 140°. Find its exterior angle.

17. Work out:  $a^7 \div a^2$ 

18. Mother had 18 blue pens and 12 green pens in a packet. She picked at random
and gave her son one pen. What is the probability that she gave her son a blue
pen?

19. 7 men working at the same rate can take 6 days to finish a certain task. How many days will 3 men working at the same rate take to finish a similar task?

20. Without using direct division, show that 315 is completely divisible by 3.

## **SECTION B: (60 MARKS)**

- 21. Work out;
  - (a) 8 7 9 3 + 4 1 4 4 8

(b) 4040

x 12

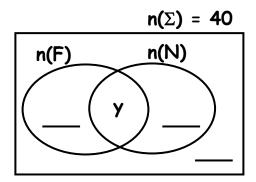
22. A maid went to the shop with a fifty thousand shilling note and bought the following items.

Item	Quantity	Unit cost	Amount
Fountain pen	2	Shs 8000	
Sugar	kg	Shs 5000	Shs 5000
Milk	$2\frac{1}{2}$ litres		Shs 6000
	Total expendit	ure	

(a) Complete the table above.

(b) Work out the change that was given to the maid.

- 23. In a class of forty pupils, 30 like Football (F), 12 like Netball (N), y like both games and two like neither of the games.
  - (a) Complete the venn diagram using the given information.



(b) How many pupils do not like Football?

- 24. Matata left home at 7:00am for town A at a speed of 120km/hr reaching there at 9:00am.
  - (a) For how long did he move?

(b) How far is his home from town A?

25. Solve these equations.

(i) 
$$\frac{n}{2} - 3 = 5$$

(ii) 
$$2(x-1) = 12$$

- 26. With the help of a sharp pencil, ruler and pair of compasses only;
  - (a) Construct a triangle PQR where angle PQR =  $120^{\circ}$ , line PQ = 4cm and line QR = 6.5cm.

(b) Measure; (i) angle QRP

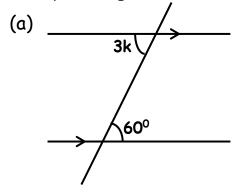
(ii)	line PR =	
(		

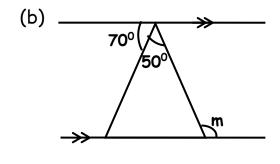
- 27. Simon, Solomon and Sarah shared shs 45000 in the ratio of 2:5:3 respectively.
  - (a) Find the share of;
  - (i) Solomon

(ii) Sarah

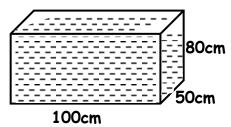
(b) Express the amount of Simon as a percentage of the total share.

28. Study the figures below and find the unknowns in degrees.





29. Study the tank below and use it to answer questions that follow.



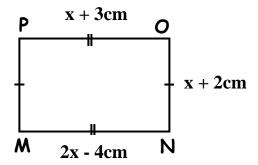
(a) Find the volume of the tank below.

(b) How many litres of water can make the tank to be half full?

30. Simplify: (a) 
$$\frac{4.8x0.12}{0.6x0.08}$$

(b)  $\frac{200}{300}$  to its lowest terms.

31. Given that line MN = 2x - 4cm, line NO = x + 2cm and line PO = x + 3cm.

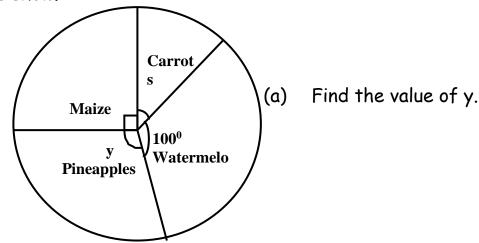


(a) Find the value of x.

(b) Find its actual length.

(c) Work out the area of the above rectangle.

32. The pie-chart below shows the farmers who sold their products at a trade show.



(b) If 108 farmers sold maize, find the total number of farmers who sold at the trade show.