P.5 LEARNERS' WORKBOOK

TERM III 2018

THIS WORKBOOK IS DESIGNED TO HELP LEARNERS, PARENTS AND TEACHERS PREPARE FOR HOMEWORK, TESTS AND EXAMINATIONS

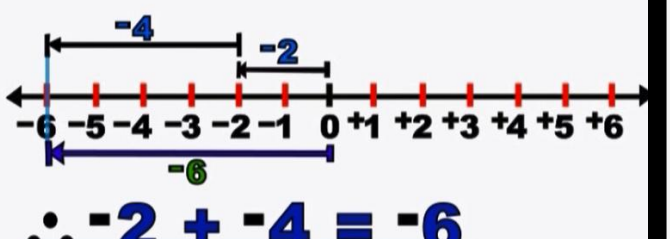
Multiplying Rules

1) **Positive x Positive = Positive:**
   Example: 3 x 2 = 6
2) **Negative x Negative = Positive:**
   Example: (-2) x (-8) = 16
3) **Negative x Positive = Negative:**
   Example: (-3) x 4 = -12
4) **Positive x Negative = Negative:**
   Example: 3 x (-4) = -12

Dividing Rules

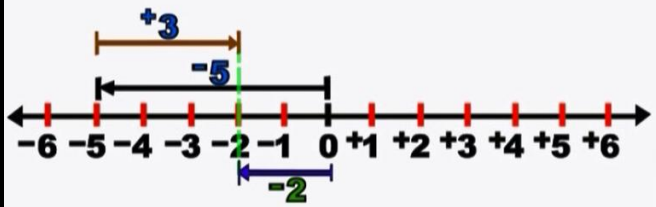
1) **Positive ÷ Positive = Positive:**
   Example: 12 ÷ 3 = 4
2) **Negative ÷ Negative = Positive:**
   Example: (-12) ÷ (-3) = 4
3) **Negative ÷ Positive = Negative:**
   Example: (-12) ÷ 3 = -4
4) **Positive ÷ Negative = Negative:**
   Example: 12 ÷ (-3) = -4

Work out: -2 + -4



∴ -2 + -4 = -6

Work out: -5 + 3

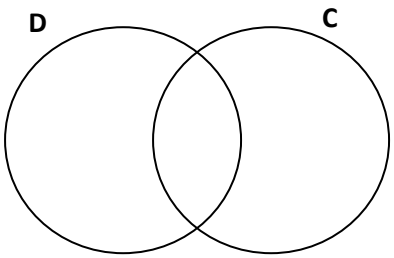
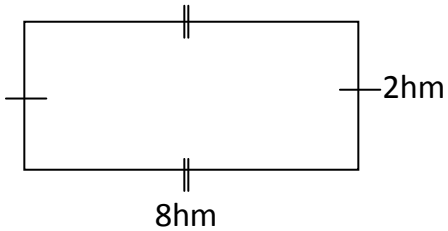


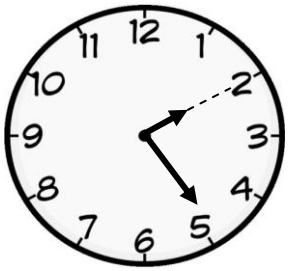
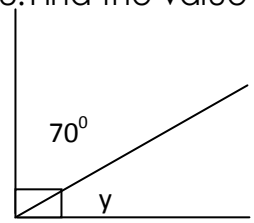
∴ -5 + 3 = -2

NAME:

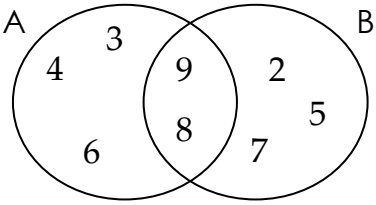
TEST ONE

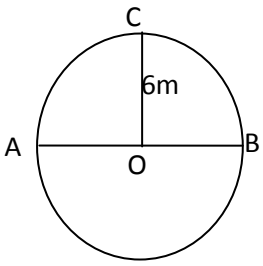
SECTION A (20 QUESTIONS – 40 MARKS)

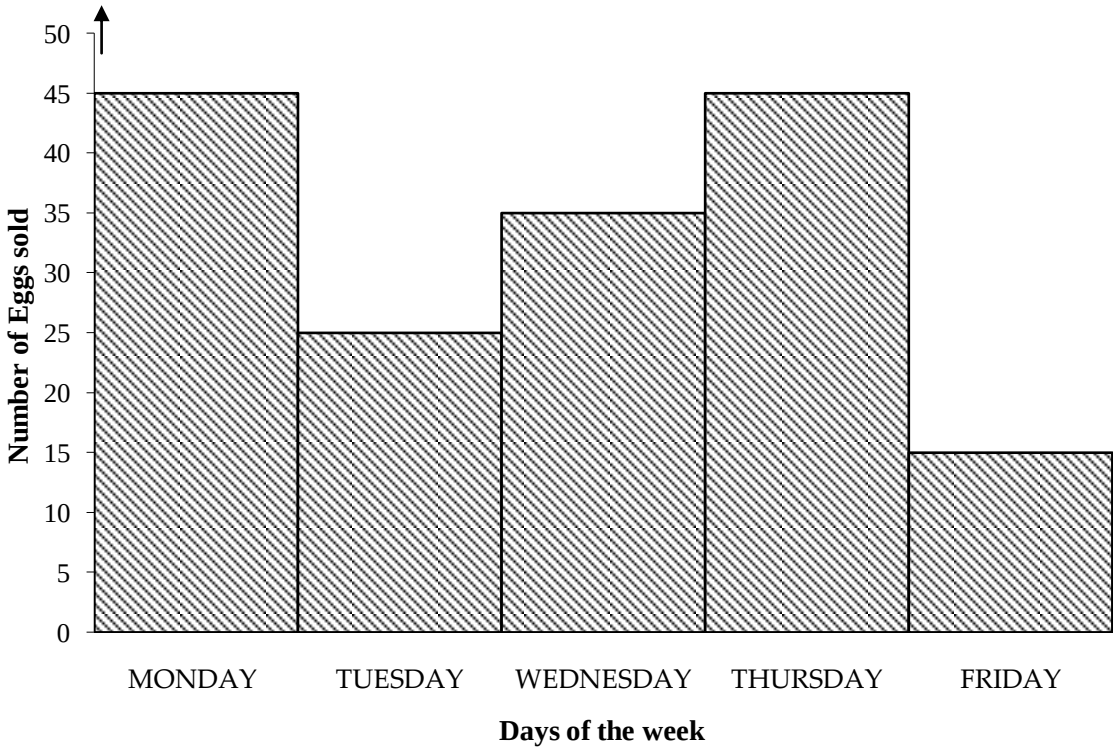
1. Subtract : 40 – 8	2. Write XLIX in Hindu Arabic numerals.
3. Shade the union set on the venn diagram.  	4. Find the LCM of 6 and 8
5. Work out; $\frac{2}{3}+\frac{1}{6}$	6. Solve: x + 8 = 29
7. With the help of a sharp pencil, a ruler and a pair of compasses, construct an angle of 90^0	8. If  ents 12 trees. How many trees are represented by;  ?
9. Kyanda bought a shirt at shs. 20,000 and sold it at shs. 24, 000. What profit did he make?	10. Find the perimeter of the rectangle below. 

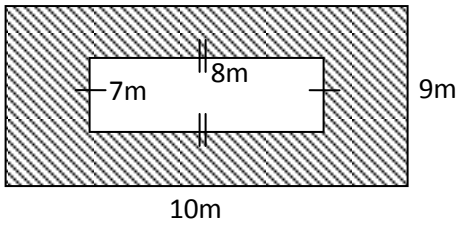
11. I think of a number, add 4 to it, I get 12 as my result. What is the number?	12. Round off 426 to the nearest tens.
13. A tray of eggs holds thirty eggs. How many eggs are on three full trays?	14. Tell the time shown on the clock face. 
15. Change 700cm to metres.	16. The marks below were scored by Jude in five tests2, 3, 2, 6, 10.Find his range of marks.
17. Moses ate $\frac{1}{5}$ of a sugar cane in the morning, $\frac{2}{5}$ in the afternoon and the remaining part in the evening. What fraction did he eat in the evening?	18. Find the value of 2y in; 
19. Multiply : 2 x 3 using a number line	20. Joanita bought two pens at shs. 500 each and three books at shs. 3,900. How much change did she get if she had a five thousand shilling note?

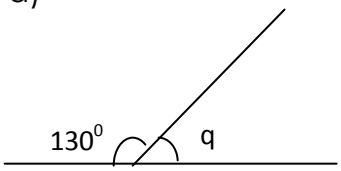
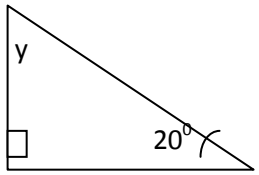
SECTION B (12 QUESTIONS – 60 MARKS)

21. Use the venn diagram below and answer the questions that follow;  a) Find B – A	(1 mark)
b) List all the members that are not in set B.	(1 mark)
c) Find n(A U B)	(2 marks)
22. Given the number 3025 (a) Represent the number on the abacus.	(2 marks)
(b) Write the above number in words.	(2 marks)
(c) Expand the above number using place values.	(2 marks)
23. Use >, or < or = to complete the statements below. (a) 14 x 5 _____ 4 + 51 (b) 86 – 6 _____ 26 x 4 (c) 18 ÷ 3 _____ 15 x 2	(2marks@)
24. (a) List the first four composite numbers.	(1 mark)

(b) Find the next number in the sequence. 1, 3, 6, 10, 15, _____	(2 marks)
(c) Find the Greatest Common factor of 6 and 8.	(2 marks)
25. In a class of 63 pupils, $\frac{2}{7}$ of them are dancers and the rest are singers. (a) Find the fraction of singers.	(2 marks)
(b) How many more singers than dancers are in the class?	(3 marks)
26. If p = 4, b = 5 and c = 7, find the value of a) p + c + b b) (b x b) – p c) pbc	(2 marks)
27. Use the circle below to answer the questions that follow.  (a) Name line OC _____	(1 mark)

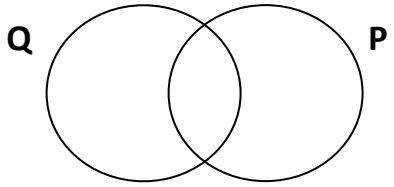
(b) Find the measurement of line AB.	(2 marks)
(c) Name point marked O.	(1 mark)
28. (a) Work out; Weeks Days 2 3 + 3 6 _____ _____	(2 marks)
(b) A swimming competition took 240 minutes. How long was the competition in hours?	(2 mark)
29. Mr. Musoke's hens lay 50 eggs a day. The graph below shows the number of eggs sold from Mr. Musoke's poultry farm.  	

(a) Which day of the week did he have the highest number of eggs sold?	(1 mark)
(b) How many eggs were sold on Tuesday?	(2 marks)
(c) How many eggs were sold in the five days?	(2 marks)
30. Danze went to a supermarket and bought the following items. 1kg of sugar at shs. 3200. 1 packet of Omoatshs. 1500. 1 kg of salt at shs. 550 A bar of soap at shs. 3500 (a) How much was the most expensive item?	(1mark)
(b) Find the cost of 2kg of sugar and a bar of soap.	(2 marks)
(c) If Danze went with a ten thousand shilling note and bought all the items, how much was his change?	(2 marks)
31. Study the figure below and answer the questions that follow.  (a) Find the area of the outer rectangle.	(1 mark)

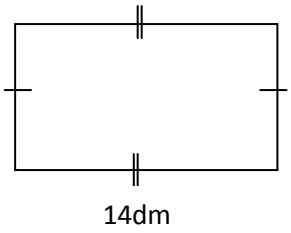
(b) Find the area of the inner rectangle.	(1 mark)
(c) Calculate the area of the shaded part.	(2 marks)
32. Find the missing angles. a)  b)  	(2 marks@)
b) Using a ruler, a pencil and a pair of compasses only, construct a square of side 4cm.	(3 marks)

TEST TWO

SECTION A – (40 MARKS)

1. Add: 14 + 3	2. In the venn diagram below, shade the union set 

3. Double the perimeter of the shape below.



4. Find the next number in the sequence below.
   20, 16, 12, 8, _____

5. Bianca gave $\frac{3}{7}$ of an apple to Benita, $\frac{1}{7}$ to Mellisa and the rest to Davita. What fraction of the apple did Davita get?

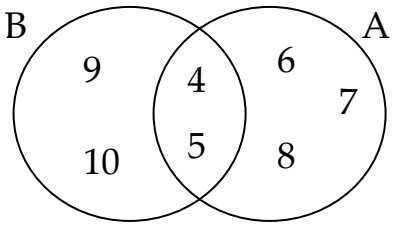
6. Solve for y;
   y – 3 = 13

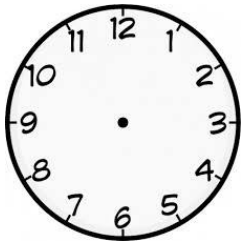
7. Share 903 sweets equally amongst Akrah, Joel and Olive. How many sweets did Akrah and Olive get altogether?

8. Write "six hundred twenty nine" in figures.

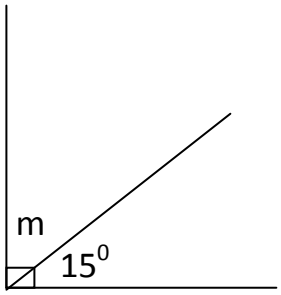
9. If ⊢ represents 6 chairs, draw pictures to represent 24 chairs?

10. Using a venn diagram below, find all the subsets in set Bonly.



11. With the help of a sharp pencil, ruler, and pair of compasses, construct an angle of 90^0.	12. Show 8:00 O'clock on the clock face below. 
13. Identify the place value of 6 in the number 1620	14. Privah had a five thousand shilling note. She bought 2kgs of sugar at shs. 2400 per kg. What was her change?
15. Arrange ; -4, +4, 0, +9 in descending order.	16. An Omni bus had fifteen seats. If $\frac{3}{5}$ of the seats were occupied by passengers, how many free seats were in the bus?
17. What number has been expanded to give; 3000 + 90 + 500 + 7?	18. Simplify; 5d + 3d + d

19. Find the value of 2m from the diagram below.



20. Work out the lowest common multiple of 8 and 6

SECTION B – (60 MARKS)

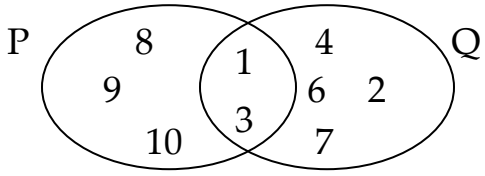
21. In a class of 70 pupils, $\frac{3}{5}$ of them are girls and the rest are boys. (2 marks)

(a) Find the fractions of boys.

(b) Find the actual number of; (1 mark@)

(i) boys (ii) girls

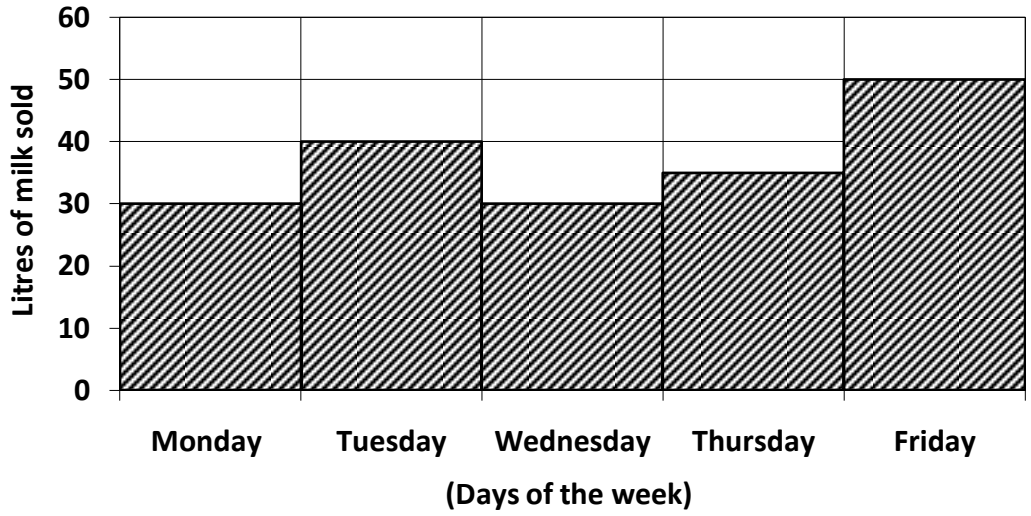
22. Study the venn diagram below and answer the questions that follow.



(a) List all the elements in set; (1 mark @)

(i) P – Q (P ∩ Q)

(b) Find n(P ∪ Q) (2 marks)

23. Given the graph below, use it to answer questions that follow.  (a) Which two days of the week had the same number of litres sold?	(1 mark)
(b) How many litres of milk were sold on Thursday?	(1 mark)
(c) How many litres of milk were sold on Tuesday and Friday?	(2 marks)
24. (a) Round off 246 to the nearest tens.	(1 mark)
25. (a) With the help of a sharp pencil, ruler and pair of compasses, construct an equilateral triangle ABC where AB = BC = CA = 5cm	(4 marks)
(b) Measure angle B _____	(1 mark)

26. The table below shows the money that two girls collected on a concert day.

Denomination	Tinah	Liz
One thousand shillings	20 notes	10 notes
Five hundred shillings	10 coins	30 coins
Two hundred shillings	30 coins	15 coins

Find the total collection of each girl. (5 marks)

27. At a party organised by primary five pupils of Greenhill Academy, there were 470 adults and 520 children.

(a) Find the total number of guests who attended the party? (2 marks)

(b) How many more children than adults attended the party? (2 marks)

(c) If there were enough sodas for only 900 guests, how many guests missed sodas? (1 mark)

28. (a) Collect like terms and simplify; (2 marks)

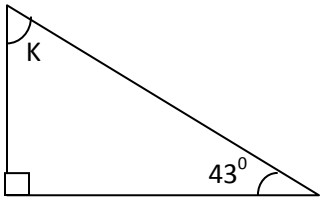
2y + p + 3y

(b) Given that e = 6, find the value of (2e) + (e x e) (2 marks)

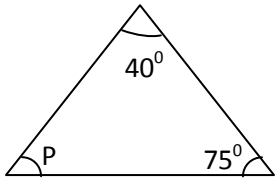
(c) Think of a number, add 4 to it, the result becomes 11. Find the number. (2 marks)

29. Study the diagrams below and find the unknown angles in degrees. (2 marks@)

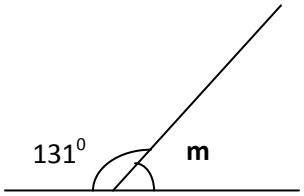
(a)



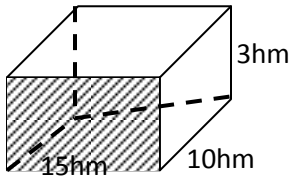
(b)



(c)



30. The prism below is a cuboid. Answer questions about it.



(a) Work out the area of the shaded portion. (2 marks)

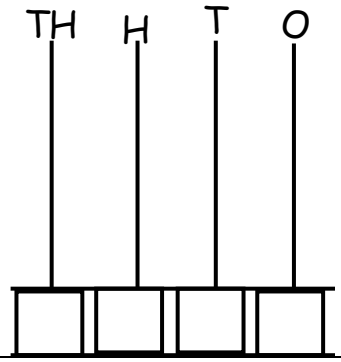
(b) Calculate the volume of the above prism.	(2 marks)
(c) How many edges does a cuboid have?	(1 mark)
31. (a) Express $\frac{1}{2}$ as a decimal fraction.	(1 mark)
(b) Work out: $\frac{2}{7} \times \frac{1}{4}$	(1 mark)
(c) Arrange $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{4}$ in descending order.	(3 marks)
32. The table below shows Wangwe's performance in Mid term one 2016. (a) How many subjects did Wangwe write?	(1 mark)

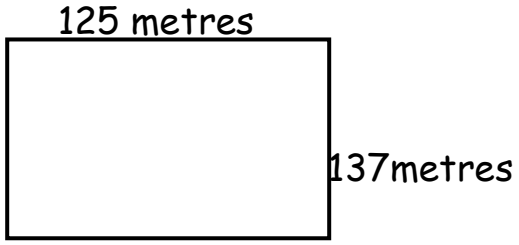
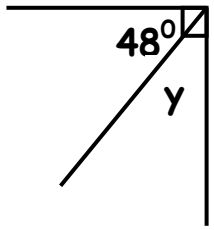
Subject	Mathematics	English	Science	Social studies
Score	95	70	90	85

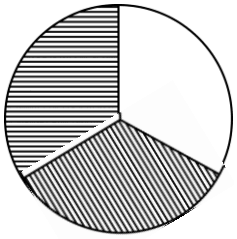
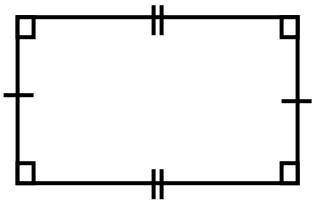
(b) In which subjects did Wangwe score the highest and the lowest scores?	(2 marks)
(c) Find the difference between the highest and the lowest scores.	(2 marks)
(d) Find the total mark of Wangwe in all subjects.	(2 marks)

TEST THREE

SECTION A (20 QUESTIONS – 40 MARKS)

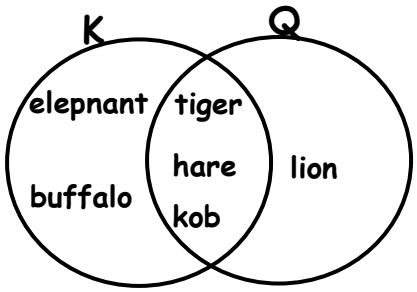
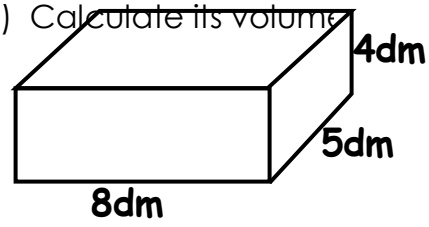
1. Add: 482 + 34	2. List the subsets of Set G if G = { m , t , n}.
3. Show 30 5 2 on the abacus below.  	4. Ssali had 128 apples. He ate $\frac{3}{8}$ of them. How many apples did Ssali eat?
5. Find the missing number in the sequence. 1 , 4 , 7 , 10 , 13 , 16 , 19 , ____	6. Arrange $^{-}3$, $^{-}4$, 0 , $^{+}1$, $^{+}2$ from the biggest to the smallest.

7. Kennedy scored the following marks in end of term one exam. Calculate his average mark. 96 , 94 , 93 , 97 , 90	8. Baate walked around the rectangular garden shown below.  Find the distance that he covered in metres.
9. In a P.5 class, there are 38 boys and 58 girls. Write the total number of pupils in Roman Numerals.	10. Maria went to the supermarket and bought 4 dresses at shs.15000 each. How much money did she pay for the dresses?
11. Find the value of y in degrees.  	12. Solve for y; 2y = 308

13. Round off 4527 to the nearest hundreds.	14. Add: $\frac{3}{7} + \frac{2}{7} + \frac{1}{7} =$
15. Find the lowest common multiple of 6 and 8.	16. Write the shaded fraction in words. 
17. How many lines of symmetry does the figure below have? 	18. If  esents 12 balls , draw pictures to represent 36 balls.
19. Mukose bought a shirt at shs.25000. he later sold it at shs.22300. Find his loss.	20. Work out: $\frac{1}{5} \div \frac{3}{5}$

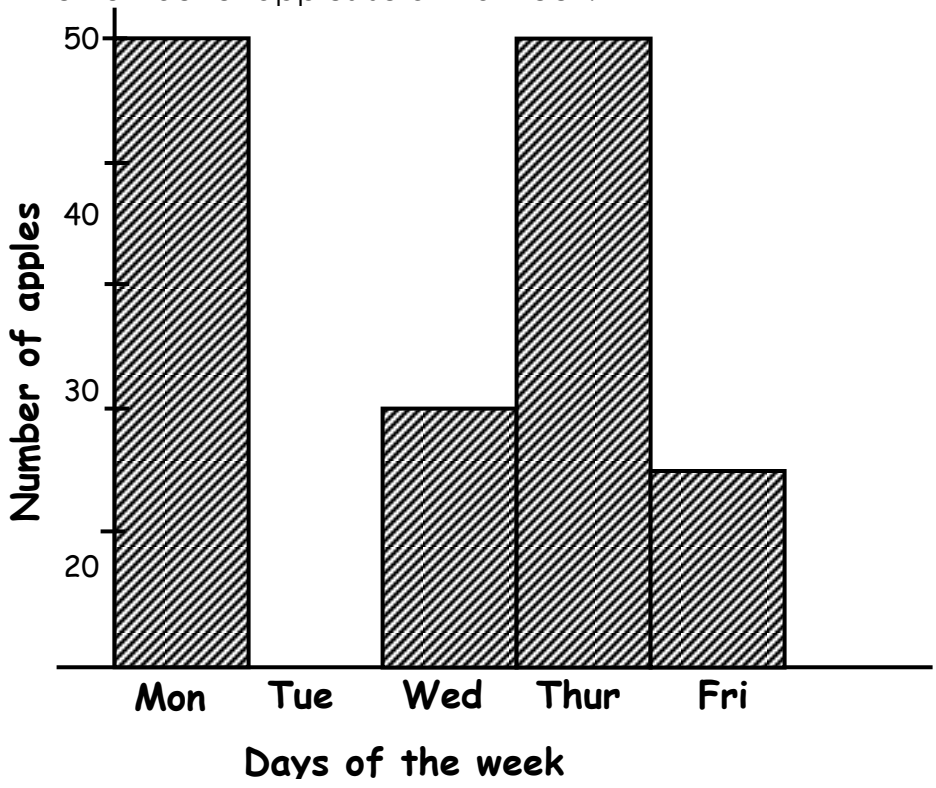
SECTION B (12 QUESTIONS – 60 MARKS)

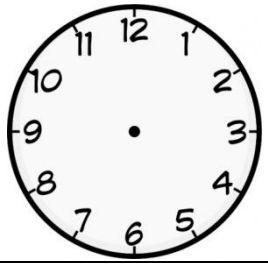
21. (a) Add: 2 3 4 6 3 2 + 1 4 3 3 9	(2 marks)

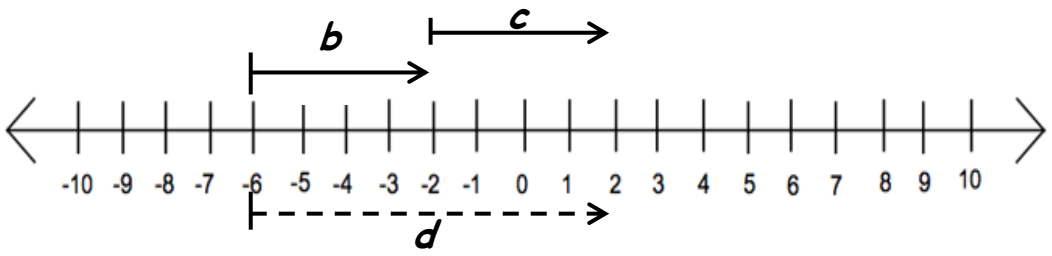
(b) Subtract: 8 8 9 3 4 2 - 4 0 3 1 2 7	(2 marks)
(c) Work out: 34 x 18	(1 mark)
22. The venn diagram below shows the animals the tourists who visited Queeen Elizabeth National Park (Q) and Kidepo National Park (K) saw.  (a) List the animals that were seen in both national parks.	(2 marks)
(b) List the animals that are in Kidepo National Park (K).	(2 marks)
(c) Find n(K ∪ Q)	(1 mark)
23. The figure below shows a cuboid. a) Calculate its volume  	(2 marks)

(a) Determine the number of; (i) Edges (ii) vertices	(1 mark) (2 marks)
24. On a farm of 2400 animals, $\frac{7}{12}$ of them are cows and the rest are other types of animals. a) Find the fraction of other types of animals.	(3 marks)
b) If 600 of the other types of animals are goats, find the number of animals that are not goats.	(2 marks)
25. If a = 4 b = 17 and c = 18. Find the value of; (a) a + b + c	(2 marks)
(b) 2a + c	(2 marks)
(c) $\frac{a \times c}{8}$	(1 mark)

26. Using a pair of compasses , ruler and sharp pencil only , construct triangle M O A such that MO = OA = AM = 6.5cm.	(4 marks)
(b) Measure angle MOA.	(1 mark)
27. An examination started at 9:00a.m and took 2hrs 30mins. At what time did it end?	(3 marks)
(b) Add: Weeks Days 9 6 + 4 5	(2 marks)
28. Kisakye went to the super market and bought the following items. 3 kgs of rice at shs.3,000 per kg. 2 bars of soap at shs.6,000. 4 loaves of bread at shs.18,000. (a) How much did she pay for all the items?	(2 marks)

(b) If she went with a fifty thousand shilling note, how much change did she get?	(3 marks)
29. Use the bar graph below and answer the questions that follow. The graph is about the number of apples sold in a week.  (a) How many apples were sold on Wednesday?	(1 mark)
(b) How many more apples were sold on Friday than Tuesday?	(2 marks)
(c) Find the total number of apples sold during the week.	(2 marks)

30. (a) Write the morning time shown on the watch below in words.  	(2 marks)
(b) Show a half past ten O'clock on a clock face below.  	(2 marks)
(c) Convert 240 minutes to hours.	(1 mark)
31. (a) Write 30102 in words.	(2 marks)
(c) Expand 12483 using values.	(2 marks)
(c) Subtract: $1\ 2\ 3_{five}$ $-\ 1\ 4_{five}$	(1 mark)

32. Use the number line below and answer the questions that follow.  (a) Name the integers marked; (i) b _____ (ii) c _____ (iii) d _____	(1 mark) (1 mark) (1 mark)
(b) Write the mathematical statements on the number line above.	(2 marks)

TEST FOUR

SECTION A (20 QUESTIONS – 40 MARKS)

1. Subtract; 3 8 - 1 0 _____ _____	2. Write the place value of 6 in the number 6 7 8 2.
3. K = { a , b , c , d} M = { a , e , i , o , u} Write the common members of set K and M	4. Jamil fetched a jerrycan of water. He used $\frac{3}{5}$ of the water. Write the fraction of water left in words.

5. Mike and Jose are painting a room. Jose used $\frac{2}{3}$ of a tin of paint while Mike used $\frac{1}{2}$ of another tin. How much more paint did Jose use?

6. Mary has Shs.17,000 and James has Shs.25,000. How much money do they have altogether?

7. Complete the table below.

Metres	2	1	3	4	__
centimetres	200	100	__	400	600

8. Kato had some mangoes and his father gave him 18 more mangoes. Altogether he had 183 mangoes. How many mangoes did he have before?

9. Draw a clock face to show a quarter past 9 o'clock.

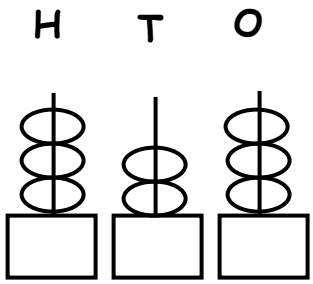
10. Add the missing numbers in the pattern.
18 , 28 , 38 , 48 , ___ , ___

11. <u>A stool has 3 legs.</u>

How many stools will you have if there are 141 legs?

12. Using a ruler, pair of compasses and a sharp pencil only, construct an angle of 60^0.

13. Round off the number shown on the abacus to the nearest hundreds.



14. Mary went to the Bank and withdrew the following notes and coins.

Notes: Shs.50,000 Shs.2000

Coins: 1000 500

How much money did she get from the bank altogether?

15. K = { bag , hen , pencil , book}
G = { hen , duck , pigeon}

Find n(K∩ G)

16. Expand; 6304

17. Baganizi bought 125 bunches of matooke. He returned eighteen bunches to the market. How many bunches did he remain with?

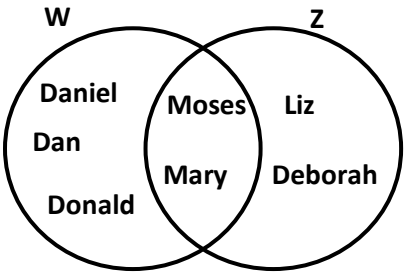
18. Calculate the area of a square whose perimeter is 36cm.

19. Divide: 8407 by 3.

20. Subtract; $\frac{1}{3} - \frac{1}{4}$

SECTION B (12 QUESTIONS – 60 MARKS)

21. (a) Write 8 7 0 9 in words.	(1 mark)

(b) Given digits 3 , 6 , 5 , 8. (i) Form the biggest and smallest 3 digit numbers.	(2 marks)
(ii) Find the sum of the biggest and smallest numbers formed.	(2 marks)
22. Use the venn diagram to answer the questions.  List the members of (a) W =	(1 mark)
(b) Z =	(1 mark)
(c) Write the members of WU Z	(2 marks)
(d) How many members are in setW?	(1 mark)
23. Tumushabe bought a bag at Shs. 65,000. He sold it at shs.72,300. Calculate his profit.	(3 marks)
(b) If he had sold it Sh.63,500, what would have been his loss?	(2 marks)

24. The diagram below shows a calendar month of 2016.

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

c) On which day of the week did the next month start? (1 mark)

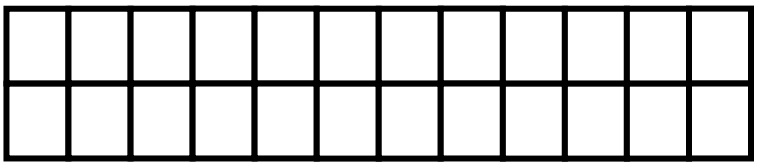
d) Which month of year is shown above? (1 mark)

e) Which day of the week was more frequent in the month above? (1 mark)

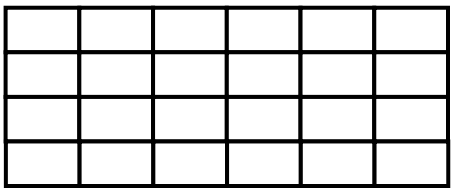
f) On which date did John first go to church for prayers in the above month? (2 marks)

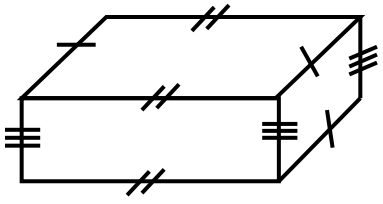
25. (a) Convert $\frac{19}{6}$ into a mixed number. (2 marks)

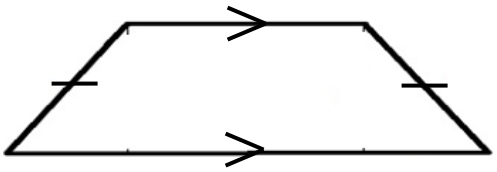
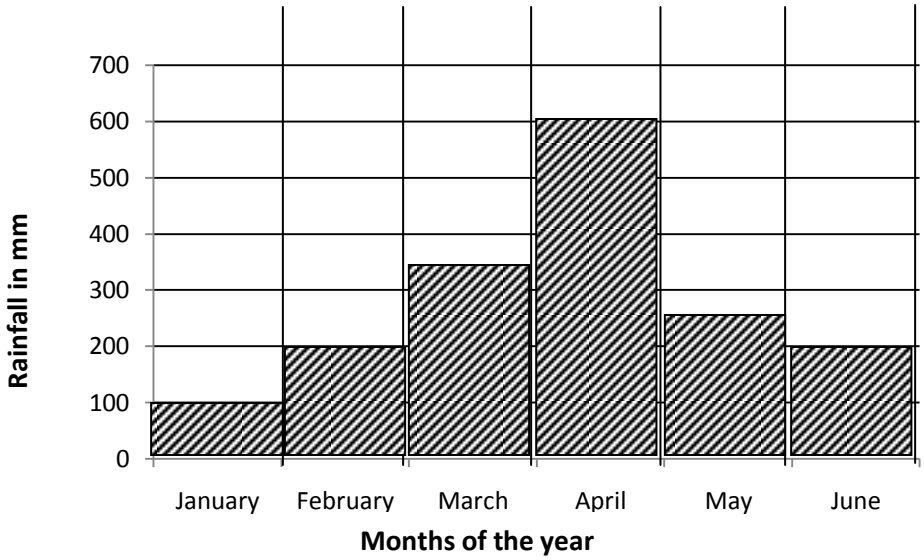
(b) Shade $\frac{1}{3}$ of the figure below. (2 marks)



(c) Add the unshaded fraction in (b) above to $\frac{1}{6}$ (2 marks)

26. Use the shape below to answer the questions that follow. The side of each small square is 1dm.  (a) Fill in; (i) Length = _____ dm (ii) Width = _____ dm	(1 mark) (1 mark)
(b) Calculate its area.	(2 marks)
(c) Work out its perimeter.	(2 marks)
27. Add; k g g 100 182 + 9 329 _____ _____	(1 mark)
(b) Subtract; MetresCentimetres 31 81 - 1 23 _____ _____	(1 mark)
(c) Multiply; 362 litres x 2 _____ litres _____	(2 marks)
(d) A petrol tank holds 25 litres. If the fuel seller sells 5 litresperday , how many days will he sell the litres in the tank?	(2 marks)

28. (a) Convert $2\frac{1}{3}$ to an improper fraction.	(2 mark)
(b) Match the following. $\frac{1}{2}$ improper fraction $\frac{8}{5}$ proper fraction $8\frac{2}{7}$	(2 mark)
29. Babirye had 198 cows. Last week, the outbreak of East coast fever killed 76 cows. How many cows did he remain with?	(2 marks)
(b) Find the missing number. 18 - $\square$ = 7	(2 marks)
(c) If m = 6 , g = 9000. Find the sum of g and m.	(2 marks)
30. Name the shapes below. (a) 	(1 mark)

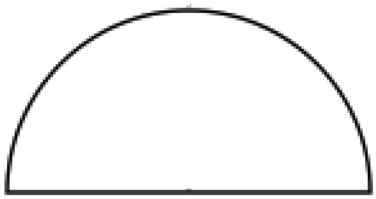
(b) 	(1 mark)
(d) How many edges has "a" above?	(2 marks)
31. (a) Mulekwa went to Mombasa and spent there 1 week and 3 days. How many hours did he spend in Mombasa?	(2 marks)
(b) Add: Hr min 3 40 + 2 5 8 _____ _____	(2 marks)
32. Study the graph and answer the questions that follow. Rainfall received in the first months of the year were recorded at Greenhill Academ Primary School in 2016.  	

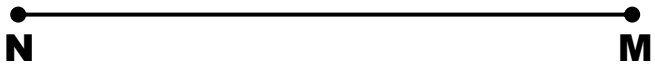
(a)	How much rain was received in January?	(1 mark)
(b)	Find the difference between the rain received in the months of April and February?	(1 mark)
(c)	What was the average amount of rainfall received?	(2 marks)

TEST FIVE

SECTION A (20 QUESTIONS – 40 MARKS)

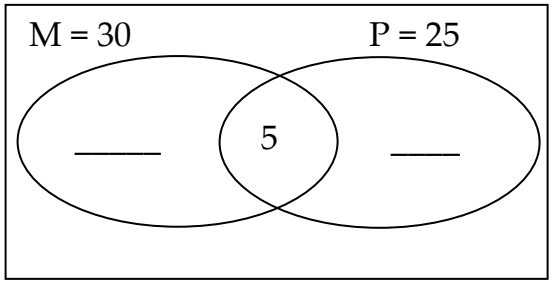
1. Add : 6 + 4	2. Write the place value of 6 in 369.
3. Find the number of subsets in set K. K = { cat, cow, rat}	4. Write XLIX in Hindu Arabic Numerals.
5. Work out; $4 \div \frac{1}{3}$	6. Given that a = $^{-}$4 and b = 6. Find the value of a + b

7. Given that  represents 12 trees. How many trees are represented by;  ?	8. With the help of a sharp pencil, a ruler and a pair of compasses, construct an angle of 60^0
9. Tell the time shown on the clock face.	10. Show the lines of symmetry on the figure below. 
11. P Q. The distance from P to Q is 100cm. If Angela's stride is 20cm long, how many similar strides will she make from P to Q?	12. Atim is 4 years older than Otim. If their total age is 20 years, how old is Atim?
13. Find the product of seventy two and fifteen.	14. Round off 6273 to the nearest hundreds.
15. Find the sum of the first three prime numbers.	16. Write 0.5 as a reduced proper fraction.

17. A pupil scored the following marks in weekend homework; 4, 5, 6, 4, 7 and 4. Find his average mark.	18. Measure the line segment MN. 
19. Find the number of minutes in an hour?	20. Wasswa weighs 49kgs, Masswa weighs and Kasswa weighs 72kgs. Who is the heaviest person?

SECTION B (12 QUESTIONS – 60 MARKS)

21. Given the number 4621 (a) Write the above number in words.	(2 marks)
(b) What is the value of 2 in the number 4621?	(2 marks)
(c) Expand 4621	(2 marks)
22. (a) Add ; $3\ 2\ 4_{five}$ $+\ 1\ \ 1\ 1_{five}$	(2marks)

(b) Subtract : $4\ 0\ 4_{five}$ $-\ 1\ 3\ 1_{five}$ _____ _____	(2 marks)
(c) Convert 24_{five} to base ten.	(2 marks)
23. In a group, there are 30 children who enjoy milk (M), 25 children who enjoy porridge (P) and 5 children enjoy both.  a) Fill in the missing information on the above venn diagram.	(2 marks)
b) How many children do not enjoy milk?	(1 mark)
c) If each of the children, who enjoy both drinks got shs. 1,000, how much money did they get altogether?	(2 marks)
24. Given that p = 10, q = 30 and r = 20, find the value of (i) p + q (ii) q r	(1 mark @)

(iii) $\frac{q}{p}$

25. (a) Express $\frac{15}{2}$ as a mixed number. (2 marks)

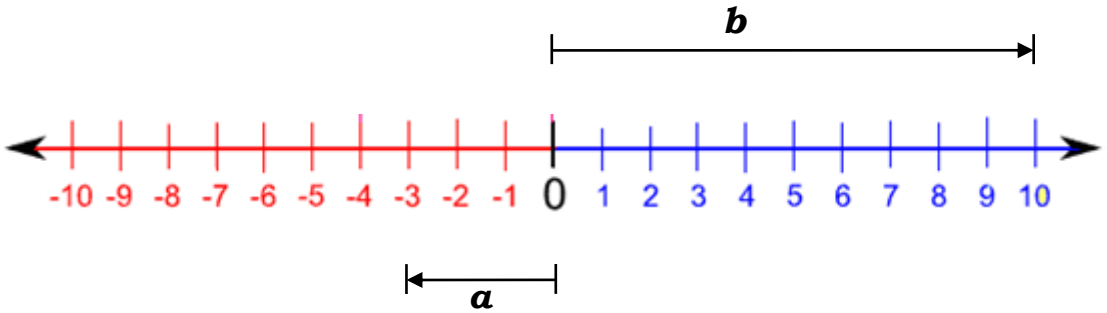
(b) Add; $\frac{2}{3}+\frac{1}{4}=$ (2 marks)

(c) Arrange $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{5}$ in ascending order. (2 marks)

26. Study the table below and answer the questions that follow. (1 mark @)

Food	Tally	Frequency
Matooke		13
Posho	𝍸	
Rice		10

27. Answer the questions about the drawn numberline below.



(1 mark @)

(a) Name the interger represented by arrow;

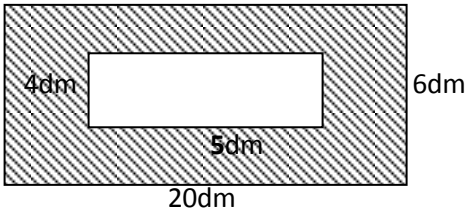
(i) $a =$ *(ii)* $b =$ *(iii)* $c =$

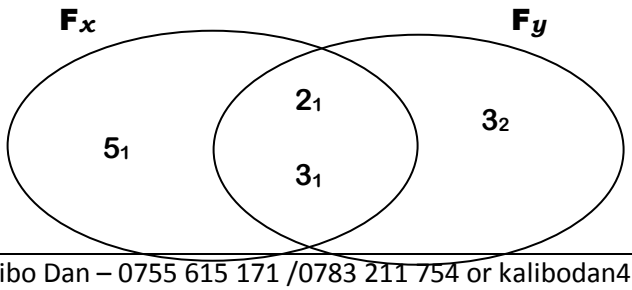
(b) Write the addition mathematical statement shown above. (2 marks)

28. (a) With the help of a sharp pencil, ruler, and a pair of compasses only, construct a square MTNO of sides 5cm each. (3 marks)

(b) Measure line MN (1 mark)

29. Study the figure below and find the area of the shaded region. (6 marks)



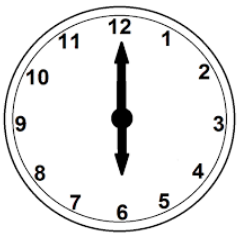
30. Paul went for shopping and bought the following items. 2 fountain pens at shs. 1500 each 6 books at shs. 500 each A geometry set at shs. 2800 (a) Find his total expenditure.	(4marks)
(b) If he was given change of shs. 1200, how much money did he go with?	(2 marks)
31. (a) Change 7 metres to centimeters.	(2 marks)
(b) Work out; Kgs g 7 800 + 4 300	(2 marks)
(c) How many half-litre bottles can be used to fill a 20-litre jerrycan?	(2 marks)
32. Use the venn diagram below to answer questions that follow.  	

(a) Find the value of; (i) y (ii) x	(2 marks@)
(b) Find the Greatest Common Factor (GCF) of Fx and Fy.	(2 marks)
(c) Find the Lowest Common Multiple (LCM) of Fx and Fy.	

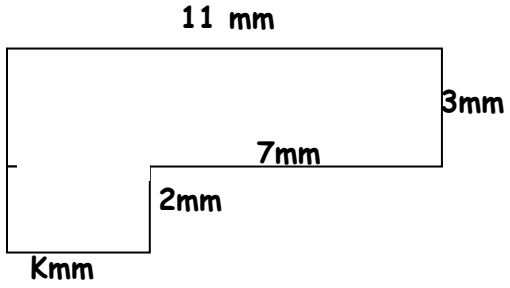
TEST SIX

SECTION A (20 QUESTIONS – 40 MARKS)

1. Take away; 7 – 2 _____ _____	2. Write 448 in words.
3. If one book costs shs. 500. How many books will Kalungi buy with shs. 5,000?	4. Convert 8 metres to cm.

5. Find the least number that can be divisible by either 8 or 12 leaving no remainder.	6. Set A = {a, e, i, o, u}. How many subsets are in set A?
7. Tell the time shown on the clock face.  	8. Simplify ; 3a + a – 2a
9. Change 141_{five} to base ten.	10. Jammy scored the following marks in End of year exams. 93, 85, 90 and 80. Calculate Jammy's average score.
11. A cyclist takes 3 hours to cover a distance at a speed of 60km/hr. What distance does he cover?	12. Kanyike bought 4 cups at shs. 2,800. Find the cost of seven similar cups.

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



14. How many half litre cups can be used to fill a 20 litrejerrycan?

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

Weeks	1	____	6
Days	7	21	____

16. Write the Roman numeral for 100.

17. With the help of a sharp pencil, ruler and pair of compasses only, construct an angle of 60^0.

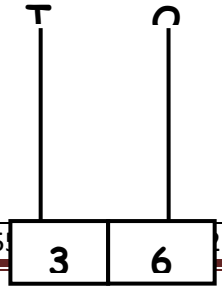
18. Sanyu bought a bag at shs. 25,000. She later sold it at shs. 28,000. Find her profit.

19. Apply BODMAS correctly;
    9 x 4 + 2

20. Write the additive inverse of -12.

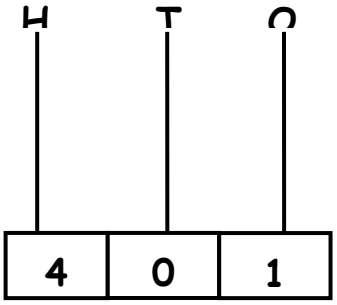
SECTION B (12 QUESTIONS – 60 MARKS)

21. Show these numbers on the abacus.
    (a) 36

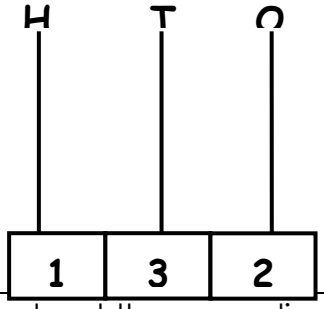


(2 marks)

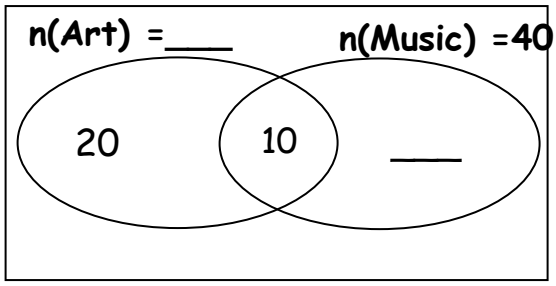
(b) 401 (2 marks)



(c) 132 (2 marks)



22. Answer questions about the venn diagram below.



(2 marks)

(a) Complete the above venn diagram.

(b) How many people enjoy both subjects? (2 marks)

23. Complete the table below correctly. (6 marks)

Mark	Frequency	Tally
70	6	𝍸 /
80	_____	𝍸 𝍸
55	2	_____
90	5 _____	𝍸

24. Use the magic square below to answer the questions that

follow.

8	a	6
b	5	a
4	d	e

Find the unknown values.

(5 marks)

25. In a village of 450 people, $\frac{4}{5}$ are males and the rest are females.

(a) Find the fraction of females.

(2 marks)

(b) Find the actual number of ;

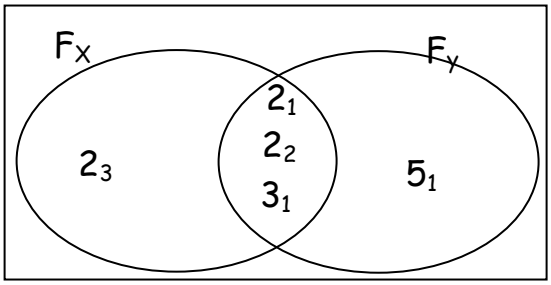
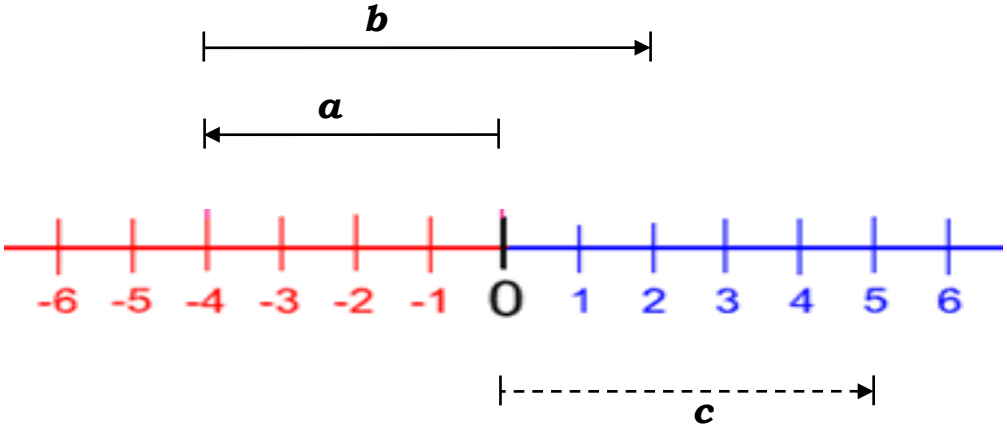
(i) males

(ii) females

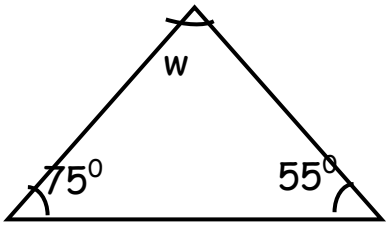
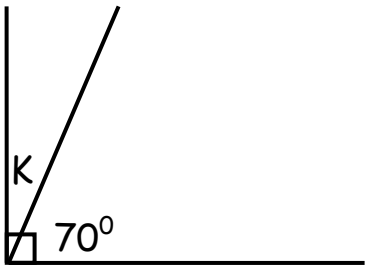
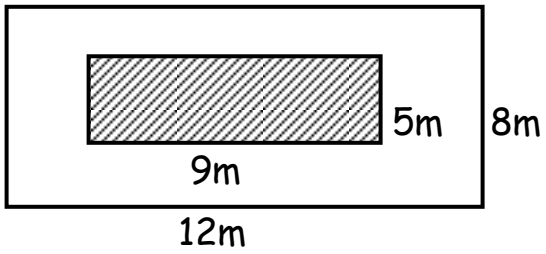
(4 marks)

26. (a) With the help of a sharp pencil, ruler and pair of compasses, Construct a triangle ABC where line AB = 7cm, angle BAC = 90^0 and line AC = 5cm .

(4 marks)

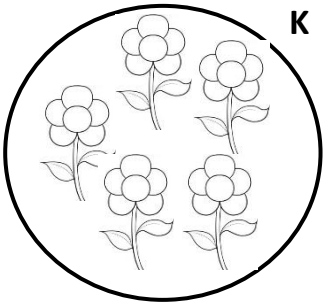
(b) Measure line BC _____	(1 mark)
27. Use the venn diagram below to answer questions that follow.  (a) Find the value of; (i) x (ii) y	(4 marks)
(b) Find the G.C.F of F_x and F_y	(1 mark)
28. Use the numberline below to answer questions.  (a) Identify the integer represented by arrow;	

(ii) a = _____ *(ii)* b = _____ *(iii)* c = _____	(6 marks)
29. Ivan went to the market and bought the following items. $\frac{1}{2}$ kg of sugar at shs. 3,800 a kg. 3 bars of soap at shs. 2500 each 4 tomatoes 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)
30. (a) Kengo had some books and was given 7 more books. If he has 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) $\frac{qr}{2p}$	(1 mark)

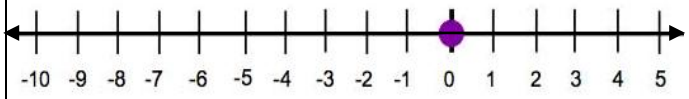
31. Find the unknown values in degrees. (a)  	(2 marks)
(b)  	(2 marks)
32. Kengo covered the floor using a carpet measuring 9m by 5m.  Work out the area of the; a) carpet	(1 mark)
b) floor	(1 mark)
c) uncovered part	(2 marks)

TEST EIGHT

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 45^0	6. How many half litre containers of water can be used to fill a 10 litrejerrycan?
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?

9. Use the numberline below to work out;
   $2 + {}^{-}4 =$ _____



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 x 3

13. Find the least number of bags that can be given to either 8 boys or 9 boys leaving no remainder.

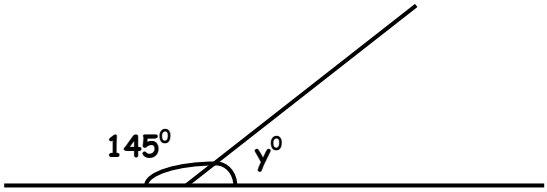
14. Apply Bodmas to work out.

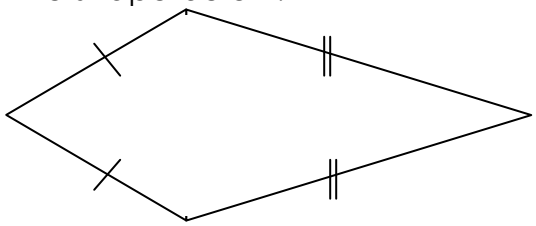
$$\frac{1}{2} - \frac{1}{4} + \frac{1}{3}$$

15. If  resents 10 balls, draw

pictures to represent 50 balls.

16. Calculate the value of y.

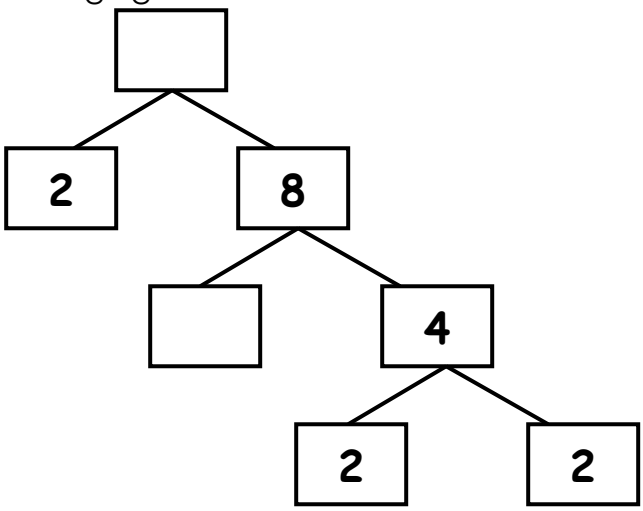
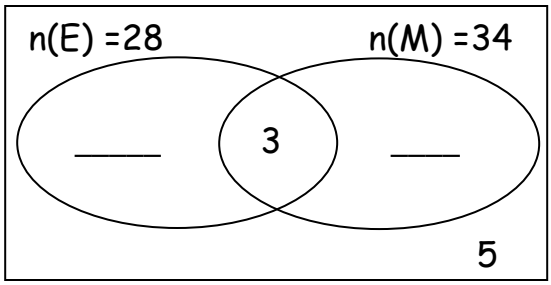


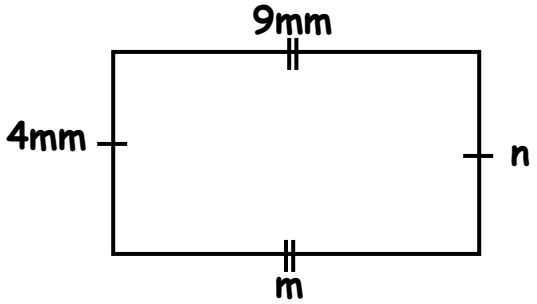
17. Arrange $\frac{2}{3}, \frac{1}{4}$, and $\frac{1}{2}$, starting with the biggest.	18. Work out; Hrs Mins 3 40 + 2 30 _____ _____
19. Convert 101_{five} to base ten.	20. Indicate the lines of folding symmetry on the shape below. 

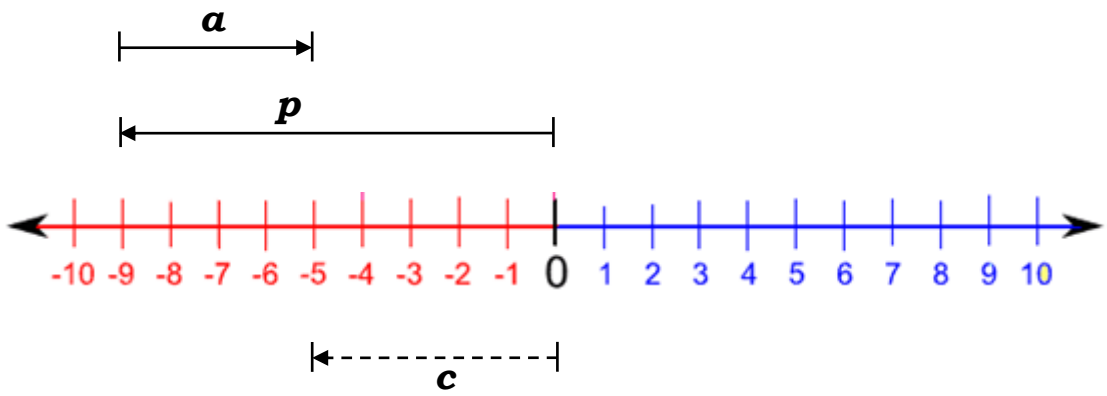
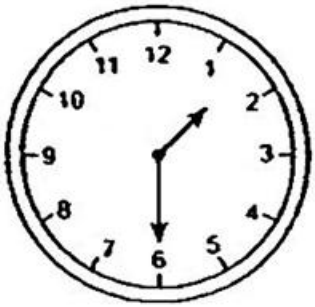
SECTION B (12 QUESTIONS – 60 MARKS)

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.	(2marks)

(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. (c) Find the fraction of females	(2 marks)
(d) How many females are in the group?	(3 marks)
24. Given that m = 5, y = 4 and k = 2, find the value of; (vi) myk =	(2 marks)
(vii) 6y+m =	(2 marks)
(viii) $\frac{7y}{k}$	(2 marks)

25. (a) Fill in the missing figures.  	(2 marks)
(b) Find the LCM of 12 and 16	(1 mark)
(c) Add: $\frac{3}{6}+\frac{1}{12}=$	(1 mark)
26. In a class, 28 pupils like English (E), 34 pupils like Maths (M), 3 pupils like both and 5 pupils do not like any of the two subjects. (a) Complete the venn diagram below.  	(2 marks)
(d) How many pupils like only one subject?	(1 mark)

(e) How many pupils do not like English?	(1 mark)
27. Given the shape below, use it to answer the questions that follow.  (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)

(b) If she went with a twenty thousand shilling note and bought all the items, what was her change?	(2 marks)
29. Use the numberline below to answer questions.  (b) Find the value of; *(iii)* c = _____ *(ii)* p = _____ *(iii)* a = _____	(3 marks)
(c) State the mathematical statement for the above numberline.	(2 marks)
30. (a) What morning time is shown on the clock face? 	(2 marks)
(b) Change 6 hours into minutes.	(2 marks)

31. (a) Construct a triangle XYZ where XY = 7cm, angle ZXY = 60^0 and XZ = 5cm. (4 marks)

(c) Measure line YZ (1 mark)

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

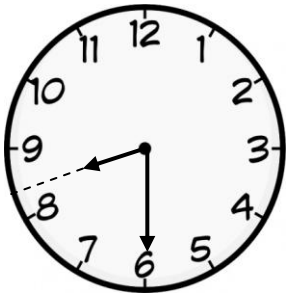
Stream	P.5P	P.5R	P.5G	P.5B	P.5Y
No. of pupils	70	90	50	70	40

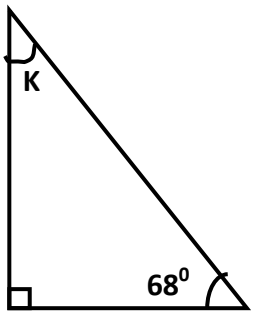
(c) Represent the above information on a bar graph.

(b)	If the wrappers were to be distributed equally to all the above streams, how many wrappers would each stream get?	(1 mark)

TEST NINE

SECTION A – (40 MARKS)

1. Work out: 2 4 x 2 _____ _____	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?	4. Find the product of the next two numbers in the sequence. 60, 50, 40, 30, ____ , ___
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_{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. 
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 x 2 x 3 x 3.	18. What integer is three steps to the left of +3?
19. Subtract: $\frac{2}{3}$ from $\frac{3}{4}$	20. Find the range; 6 , 7 , 5 , 9 , 1 and 0.

SECTION B – (60 MARKS)

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

(c) Complete the table correctly. (1 mark @)

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

(d) Work out the average attendance for the whole week. (2 marks)

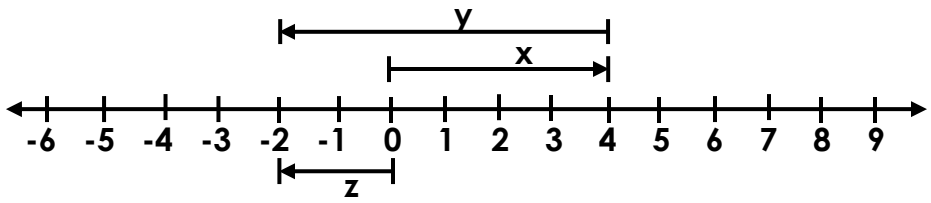
22. Fill in the missing number. (2 marks)

$\square \div 6 = 7$

(b) Find the value of h. (2 marks)

$2h + 7 = 13$

(e) 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 = _____ (ii) X = _____ (iii) Z = _____	(1 mark @)
(b) Write the addition mathematical sentence of the above number line.	(1 mark)
24. Magala went to the shop and bought the following items. 2kg of sugar at shs. 4500 per kg. 1 kg of salt at shs.1200. 3 books at shs.2000 each book. 2pen at shs. 1000. (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)

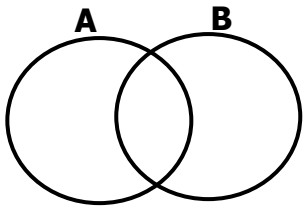
(b) Work out:

$3\overline{)480}$

(2 marks)

26. Given that A = { 1 , 3 , 5 , 7 , 9}
B = { 1 , 2 , 4 , 6 , 8}

(a) Represent the above informaton on the venn diagram below.



(3 marks)

(b) Find (i) $A \cap B$

(1 mark)

(ii) $\cap (A \cup B)$

(1 mark)

27. Work out:

(a)

Years	months
5	3
+ 2	9

(2 marks)

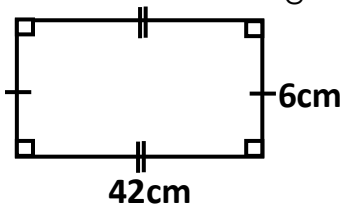
(b)

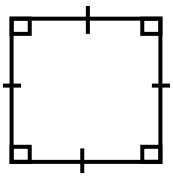
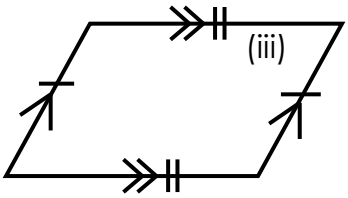
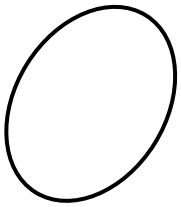
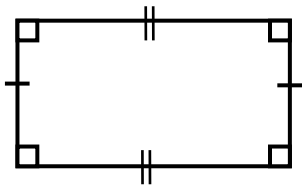
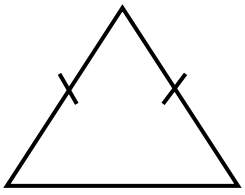
Hours	minutes
4	25
+ 6	15

(1 mark)

(c) Change 24 days to weeks.

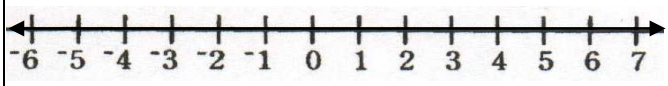
(2 marks)

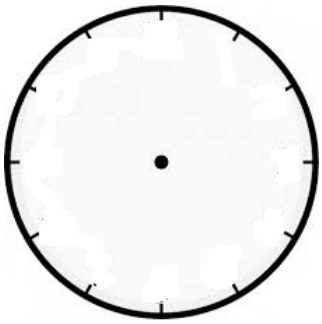
28. The figure below is a rectangle.  (a) Calculate the area of the figure.	(2 marks)
(b) Find the perimeter of the figure.	(2 marks)
29. In a group of 48 people, $\frac{2}{3}$ of them eat rice and the rest eat matooke? (a) Find the fraction of the people who eat Matooke.	(2 marks)
(b) How many people eat rice?	(2 marks)
(c) How many more people eat rice than Matooke?	(2 marks)
30. Given the number 30127. (d) (i) Find the value of the digit in the Hundreds.	(2 marks)

(ii) Expand the above number using place values.	(2 marks)
(e) Write XLIX in Hindu Arabic numerals.	(2 marks)
31. (a) Name the following shapes. (i)  (ii)  (iii)  _____ _____ _____	(1 mark @)
(b) Show and write the lines of symmetry of the following shapes. (i)  _____ (ii)  _____	
32. With the help of a pair of compasses , a ruler and a sharp pencil only, construct a square JKLM whose side measure 5cm.	

TEST 10

SECTION A – (40 MARKS)

1. Multiply; 3 x 4	2. Find n(A) if set A = { 2, 4, 6, 8}
3. Draw a parallelogram in the space below.	4. Add; $4\ 4\ 4_{five}$ $+\ \ 1_{five}$ ——— ═══
5. Multiply the missing number in the sequence by 2. 2, 3, 5, 7, _____	6. Show $^{-}3 + 7 =$ _____ on the numberline below. 
7. Find the area of a rectangular garden measuring 7m in length and 6m in width.	8. In the number 275, subtract the place value of 7 from the value of 2.
9. Reduce $\frac{36}{72}$ to its simplest form.	10. Convert 3 minutes into seconds.

11. Moses had some cakes, he gave 8 of them to Wasswa and remained with 12 cakes. How many cakes did he have at first?	12. Round off 98.46 to the nearest tenths.
13. With the help of a ruler and a sharp pencil, draw line MN = 6.5cm.	14. Given that  stands for 5 trees. Draw pictures to represent five trees.
15. A pupil bought a dozen of books at shs. 12,000. How much money can he pay for only 3 similar books?	16. If x = -4 and y =- 3, evaluate ; xy
17. Brenda had 200 apples and gave $\frac{1}{4}$ of them to her friend. How many apples did she remain with?	18. It is a quarter to midday. Show the time on a well labelled clock face. 

19. Set K has all the vowel letters in the word "women". List all the subsets in set K.	20. Divide ; $25\overline{)5050}$

SECTION B – (60 MARKS)

21. Study the table below and answer the questions that follow.

Club	Tally	Frequency
Mathematics	𝍸 𝍸 |	– – – – –
Science	𝍸 𝍸 𝍸	15
English	𝍸 𝍸 𝍸 𝍸	20
Music	– – – – –	11
Rotary	– – – – –	10

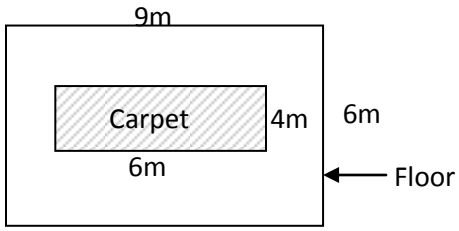
(3 marks)

(a) Complete the above table

(b) How many children are in all the clubs altogether? (2 marks)

22. Dragon went to Capital shoppers and bought the following items;
2 boxes of water at shs. 12,000@
3 bars of soap at shs. 3,000 each
A school bag at shs. 50,000

(a) Find her total expenditure. (3 marks)

(b) If Dragon received a change of shs. 7,000, how much money did he give the cashier?	(2 marks)
23. A carpet measuring 6m by 4m was laid on a rectangular floor measuring 9m by 6m. Study the diagram and find the area of the floor not covered by the carpet.  	(4 marks)
24. (a) Find the expanded number in; (i) $(7 \times 10^4) + (3 \times 10^1) + (2 \times 10^0)$	(2 marks)
(ii) 90,000 + 0.04 + 3,000	(2 marks)
(b) Work out; MMVI – MIV and give your answer in words.	(2 marks)

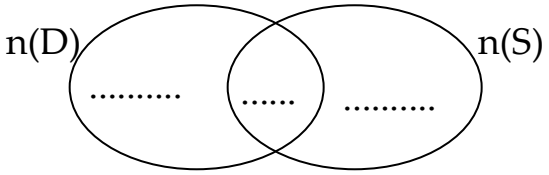
25. Complete the following statements using either; (6 marks)
>, < or =

a) 12 x 0 x 3 _____ 12 + 0 + 3

b) 22 – 2 _____ 202 – 22

c) 10^3 _____ 1000

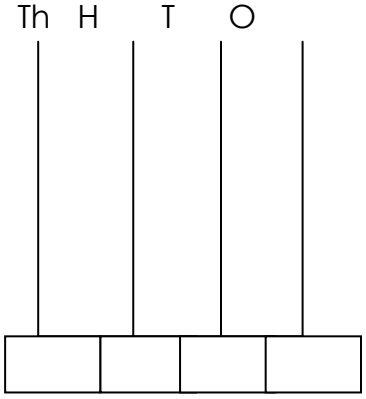
26. In a group, there are 35 pupils who like dancing (D), 25 like singing (S) and 17 like both activities.
(a) Show the above information on the venn diagram below. (3 marks)



(b) How many pupils do not like dancing? (1 mark)

(c) Find the total number of pupils in the group. (2 marks)

27. Given the number 9783,
(a) Show the above number on the abacus below. (1 mark)

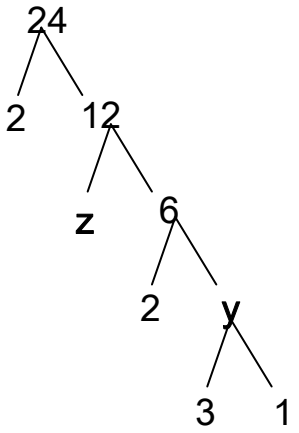


(b) Write the number in words. (1 mark)

(c) Add the value of 9 and place value of 8 in the above number in words. (2 marks)

28. Simplify ;
(a) $^{-}3 + {}^{-}4 =$ (b) $^{+}7 + {}^{+}5 =$ (c) $2 \times {}^{-}6 =$ (6 marks)

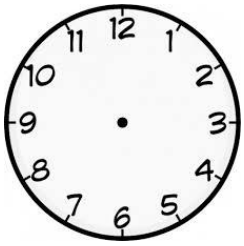
29. Study the prime factorisation below. (2 marks)



(a) Find the value of z and y. (1 mark @)
(i) z = _____, (ii) y = _____

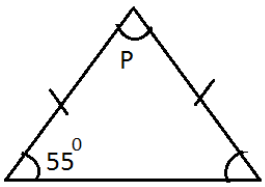
(b) Find the least number that is divisible by either 5 or 7 without leaving a remainder. (2 marks)

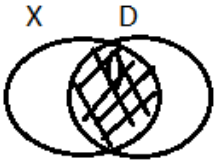
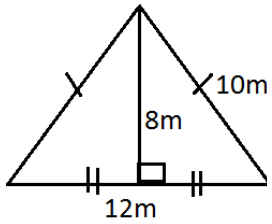
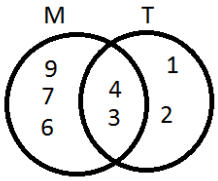
30. (a) Show 8:15 on the clock face below. (2 marks)



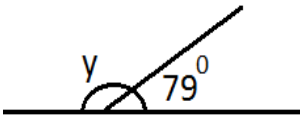
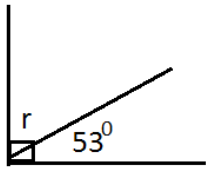
(b) A watch loses five seconds in a minute. How many seconds will the same watch lose in an hour?	(2 marks)
31. In a sachool of 800 pupils, $\frac{5}{8}$ of them are girls and the rest are boys. (a) Find the fraction of boys in the school.	(2 marks)
(b) Find the number of girls in the school.	(1 mark)
(c) How many more girls than boys are in the school?	(2 marks)
32. With the help of a compass, pencil and a ruler only, construct a rectangle PQRS where line PQ = 6cm and line QR = 3.5cm.	(3 marks)

TEST ELEVEN

1.	Write 408 in words	2.	If set Y = {ball, book, pen}. Find the number of subsets set Y has.
3.	Change $3\frac{2}{5}$ into an improper fraction.	4.	Solve for K: 2k – 2 = 10
5.	Find the next number in the sequence. 4, 11, 16, 23, 28, 35, _____.	6.	Work out the average of 9 and 5.
7.	Calculate angle marked P. 	8.	Find the LCM of 10 and 15.
9.	Add: 1 3_{five} + 4 4_{five}	10.	Express 42 into Roman numerals.
11.	Find the difference between the value of 7 and the place value of 9 in 2759 respectively.	12.	Round off 6,951 to the nearest hundreds.

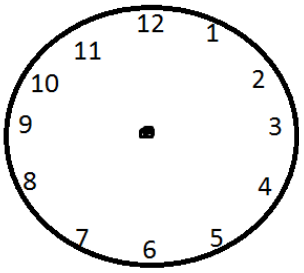
13.	Change 70gm into kilograms.	14.	Draw an isosceles trapezium and show the lines of folding symmetry.
15.	Simplify: 2a + 4b + 5a	16.	Describe the shaded region in the venn diagram. 
17.	An assembly began at 8.30 am and lasted for forty minutes. When did it end?	18.	Find the perimeter of the shape below. 
19.	Given that □ represents 15 boxes, how many boxes are represented by □ □ □ ?	20.	Use a sharp pencil, a ruler and a protractor to draw an angle of 73^0.
SECTION B			
21.	Use the venn diagram below to answer the questions that follow. (1 mk each) 	a)	Write down all the members of set M.
		b)	Find set (M n T)
c)	Find n (M ∪ T)	d)	List down the elements of set (M – T)

22.	Lydia's salary is 120,000/=. What is $\frac{2}{3}$ of her salary? (2mks)	b)	Arrange $\frac{2}{3}, \frac{1}{4}$ ***and*** $\frac{5}{6}$ in descending order. (2mks)
23.	With the help of a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS in which PQ is 5cm and PR is 2cm. (4mks)		
b)	Calculate its area. (1mk)	c)	Find its perimeter. (1mk)
24.	Given the digits 7, 2 and 9, form all three digit numerals below 700. (2mks)	b)	Expand 592 using place values. (2mks)
25. a)	Find the value of r. $\frac{2r}{3} = 8$ (2mks)	b)	Use either < or > to complete. (1 mk) 2 + 2 + 2 _____ 2^3

c)	If a=3, b =5 and c = 4.		
i)	Evaluate ac – b. (1mk)	ii)	Simplify: $\frac{a}{b} + \frac{c}{b}$(2mks)
26. a)	Simplify: $\frac{2}{3} - \frac{1}{4} + \frac{1}{6}$(2mks)	b)	Change $\frac{3}{5}$ into a decimal fraction. (1mk)
c)	Find the reciprocal of $\frac{3}{5}$. (1mk)	d)	Subtract: 1 - $\frac{3}{5}$(1mk)
27. a)	Calculate for angle y. (2mks) 	b)	Find angle r. (2mks) 
c)	The 3 angles in a triangle are 56^0, 34^0 and K. Find the value of K (2mks)		

28. a) A bus covered 180km in 2 hours. Calculate its speed in km/hr.(2mks)

b) Draw a clock face and show 12 o'clock

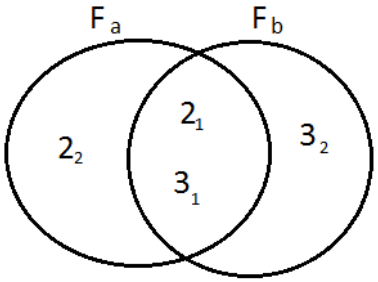


(1mk)

c) Subtract: Weeks Days (1mk)

Weeks	Days
9	3
- 4	6

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



a) Find the value of b. (1mk)

b) Find the value of a. (1mk)

c) Find the LCM of a and b. (2mks)

d) Find the GCF of a and b. (1mk)

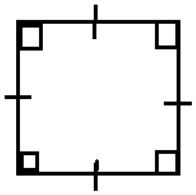
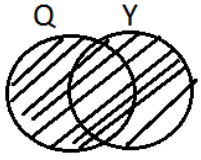
30. A girl obtained the following points during a volleyball game. 4, 6, 9, 5, 7.

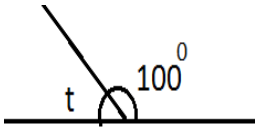
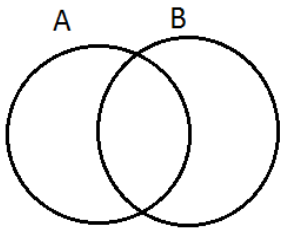
a) Workout her range. (1mk)

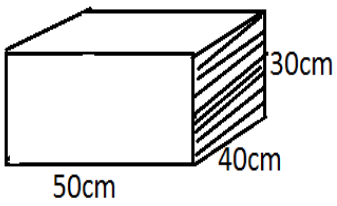
b) Find his modal frequency score. (2mks)

c)	Calculate her mean score. (2mks)	d)	What was her median score? (1mk)
31. a)	A man bought a pair of shoes at sh. 35,000 and sold it at sh. 40,000. How much profit did he make? (2mks)	b)	Namudigu bought a dress at sh.6,000 and sold it at sh.4,500. What loss did she make? (2mks)
32. a)	What is the probability of tossing a coin once and a head shows on top? (2mks)		
b)	When a dice is tossed once, the sample space is as follows. {1, 2, 3, 4, 5, 6}		
i)	What is the probability of an even number showing on top? (2mks)	ii)	What is the probability of getting a number less than 5 on top? (2mks)

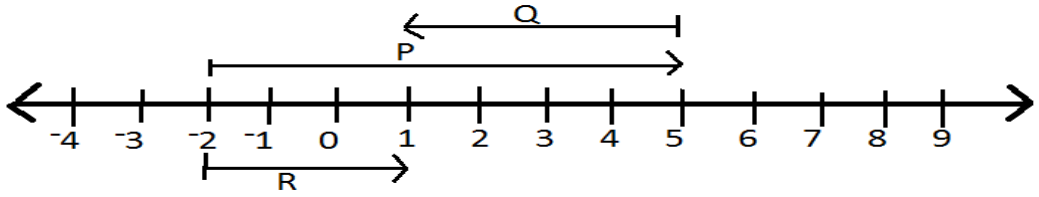
TEST TWELVE

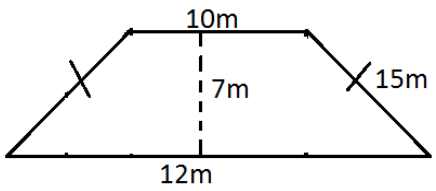
1.	Divide 14 by 7.	2.	Find the average of 4, 6, 0, and 2.
3.	Change $2\frac{1}{2}$ into an improper fraction.	4.	What is $\frac{2}{3}$ of 12 balls?
5.	Under which type of polygons is this shape? 	6.	A man shared 20 oranges equally among 9 boys. How many oranges did he remain with?
7.	Solve: 2y + 3 = 9.	8.	What is the square root of 16?
9.	Change 2 hours to minutes.	10.	Expand 4372 using powers.
11.	Describe the shaded region. 	12.	Given that 2 – 4 = X (mod 5). Find X

13.	Write XIX in Hindu Arabic numeral.	14.	The average weight of 4 girls is 20kg. Find their total weight.
15.	Find the angle marked t in degrees.  	16.	Add 3 2 3 $_{\text{five}}$ + 1 2 1 $_{\text{five}}$
17.	Subtract $\frac{85}{10}$ - $\frac{43}{10}$ and write your answer as a decimal fraction.	18.	Construct an angle of 60^0 in the space below.
19.	Simplify 3a + a + 2a – 4a.	20.	Simplify: $\frac{3}{4} + \frac{4}{5}$
SECTION B			
21.	Given that A= {1, 2, 3, 4 } and B = {0, 2, 4, 5, 7}. a) Represent the above information on the venn diagram below.  	b)	Find AnB.
		c)	List the elements in A – B.
		d)	Find n(A ∪ B)

22.	The figure below is of a water tank, use it to answer the questions that follow.  	a)	Find the number of: I. Faces _____ II. Edges _____ III. Vertices _____
		b)	Find the area of the shaded part.
c)	Calculate the volume of water in the tank	d)	What is the capacity of the water in the tank in litres?
23.	Kagwa went shopping with a note having a nest and bought the following items. - 3 pens at sh. 200 @ pen. - 4 rubbers at sh. 250 per rubber. - 3 exercise books at sh. 300 each book. - 2 sets at sh. 2000		
a)	How much did he spend?		
b)	Calculate the amount of money Kagwa remained with.	c)	If Kagwa wants 5 sets, how much will he pay?
24.	Given that x =2, y = 3 and r = 4, find;		
a)	X + y	b)	$\frac{r}{x}$

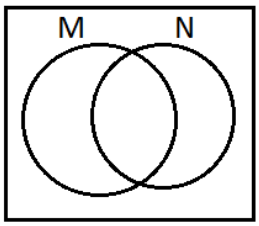
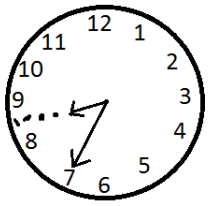
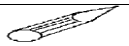
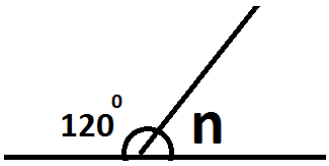
c)	r – y	d)	xy + xr
25.	In a class of 40 pupils, $\frac{3}{4}$ of them have uniforms and the rest do not have uniforms. a) What fraction of the pupils has no uniforms?	b)	How many pupils do not have uniforms?
c)	How many pupils have uniforms?	d)	If a child is picked at random to clean the chalkboard, find the probability that the pupil picked has a uniform.
26.	What is the GCF of 12 and 20?		
b)	Find the LCM of 6 an 8.	c)	Find the sum of the first five prime numbers.
27.	Tom is 12 years old. Kato is 5 years younger than Tom.		
a)	How old is Kato?	b)	Find their total age.

c)	In which year was Tom born?	d)	After how many years will their total age be 49years?
28.	a) Arrange 2.2, 0.22 and 0.2 in ascending order.		
b)	Express 4.2 as a mixed fraction.	c)	Change $\frac{2}{4}$ into a decimal fraction.
29.	Use the number line below to answer the questions that follow.  		
a)	What integers are represented by; i) P? …….. ii) Q? …… iii) R? ……	b)	Write a mathematical statement represented on the numberline above.
30.	Given the following digits. 2,9,4,3.		
a)	Form the largest number.	b)	Form the smallest number.
c)	Find the sum of the largest and smallest numeral formed.	d)	Prime factorize 24 using a factor tree and write the prime factors in power form.

31.	Study the figure below.  	a)	Name the above figure.
		b)	Calculate the distance around the above figure.
b)	Find the area of the figure above.		
32.	Using a pencil, a ruler and a pair of compasses only, construct a square ABCD of sides 5cm.		

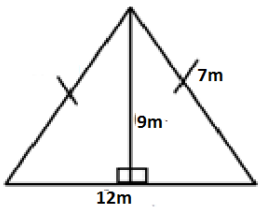
TEST THIRTEEN

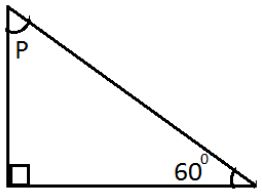
1.	Workout: 52 + 147	2.	What is the place value of 4 in 124_{five}?
3.	Find the next number in the sequence: 21, 18, 15, 12,_____, ____	4.	Solve for y: y + 6 = 20.

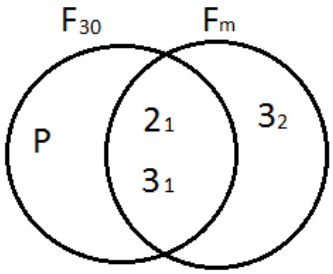
5.	Using a pencil, a ruler and a protractor only, construct an angle of 90^0.	6.	Shade (M n N) in the venn diagram below. 
7.	Tell the time shown on the clockface. 	8.	Add these fractions. $1\frac{1}{3} + 2\frac{1}{6}$
9.	Expand 432_{seven} using powers.	10.	Given that  represents 10 pencils. How many such picto symbols are represented by 70 pencils?
11.	Find the value of n in degrees. 	12.	In a class of 180 pupils, $\frac{3}{5}$ are girls. How many boys are in the class?
13.	Given that G={2,3,5,7}. Find the number of subsets of set G.	14.	A man bought a cow at sh. 720,000 which he late sold at a profit of sh. 8,000. At what price did he sell the cow?

15.	Prime factorise 18.	16.	A car covered a distance in $1\frac{1}{2}$ hours at a speed of 80km/hr. what distance did he cover?
17.	Expand 3456 using powers of ten.	18.	A farmer collects 21 litres of milk in a day. How many litres of milk will he collect in a week?
19.	Change 2.5litres to centilitres.	20.	Work out: $2\ 2\ 3_{five} - 1\ 2\ 4_{five}$
21.	a) Write $\frac{2}{8}$ as a decimal fraction.	b)	A third of a number is 20. What is the number?
c)	Workout: $\frac{1}{2} + \frac{2}{5}$		

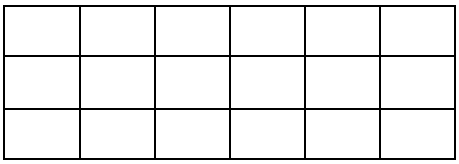
22.			
		b)	How many people sell clothes?
c)	How many people sell food?	d)	How many people sell only one type of item?
23.	Use >,< or = to complete		
a)	100cm _____1m	b)	1 kg of sand_____ a kg of feathers
c)	$\frac{2}{4}$ _____ $\frac{4}{2}$	d)	10 _____ -10
24.	a) A mother is 3p years old and the daughter is p years old. If their total age is 40 years, how old is the mother?		
b)	Share 104 oranges equally among 4 girls.	c)	Multiply: 345 x 7

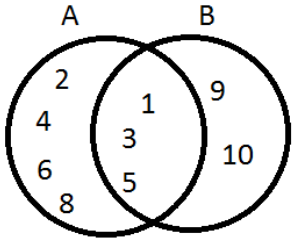
25.	How many right angles are in 450^0?		
b)	Moses was facing East, he turned clockwise to South East. Through what angle did he turn?	c)	Opukiro left his home while facing North East and turned anticlockwise at an angle of 135^0. In which direction is he facing?
26.	How many steps are there between $^-2$ and $^+5$?		
b)	What is the additive inverse of $^+5$?	c)	Simplify $5 - ^- 8$ using a numberline.
27.	Study the figure below and answer the questions that follow.  	a)	Name the above type of triangle.
		b)	How many lines of folding symmetry has the named figure?

c)	Find the perimeter of the above figure.	d)	Calculate its area.
28.	Find the complement of 40^0.	b)	Find the value of P 
29.	How many seconds are in one hour?	b)	Convert 18 weeks to days.
c)	Change 240 minutes to hours.	d)	Subtract: Hrs Min 6 4 0 _ 3 5 0
30.	A boy scored the following marks. ENG- 90, SST- 60, SCIE – 78, MTC – 92, R.E – 90.		
a)	What is the range?	b)	Calculate the median mark.
c)	Find the modal mark.	d)	Find the mean mark.

31.	Use the venn diagram below to answer the questions that follow.  	a)	Find the value of m.
		b)	Find the value of P.
c)	Find the GCF of 30 and m.	d)	Find the LCM of 30 and m.
32.	Using a pencil, a ruler and a compass only, construct an equilateral triangle of length 5cm.		
b)	Find its perimeter.		

TEST 14

1.	Workout: 12÷6	2.	Write XXIV in Hindu Arabic numeral.
3.	Given that: A= {2, 3, 4, 5, 6} and B = {1, 3, 5, 7}. Find n(A n B)	4.	Shade $\frac{2}{3}$ of the diagram below. 
5.	A book costs sh. 1000. Find the cost of 4 similar books.	6.	How many lines of folding symmetry does an isosceles triangle have?
7.	A rectangular room has the length 6cm and area 42cm$^{2.}$ .Find its width.	8.	Calculate the average of 8, 7, 5 ,4 and 7.
9.	Change $\frac{25}{7}$ to a mixed fraction.	10.	Expand 638 using values.
11.	Add: Weeks Days 2 5 + 3 6	12.	What is the square root of 36?

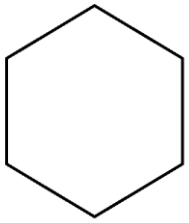
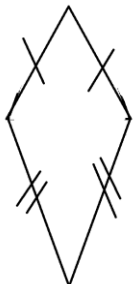
13.	A car covered a journey at a speed of 60km/hr for 2 hours. What distance did it cover?	14.	Draw an abacus and show 5031.
15.	Simplify: 4k +y + 10k +3y - y	16.	Subtract: $4\ 2\ 2_{five}$ - $1\ 3\ 3_{five}$
17.	If ◯ represents 8 oranges how many oranges are represented by the pictures below? ◯ ◯ ◯ ◯ ◯	18.	What is the LCM of 9 and 6?
19.	Tell the time using 'past'	20.	Andrew sold his cow at 180,000/= and made a loss of 70,000/=. What was his buying price?
21.	Study the venn diagram below and answer the questions that follow.  	a)	Find (A n B)
		b)	What is n(A – B)?

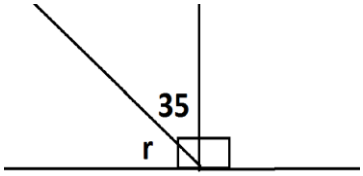
c)	List down the members of set B only.	d)	Find (A n B)'

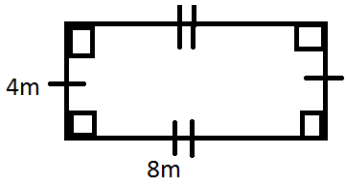
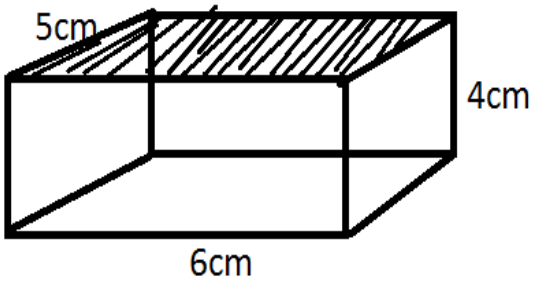
22. Mr. Kanakulya went to the bank and filled in the form below. Complete it.

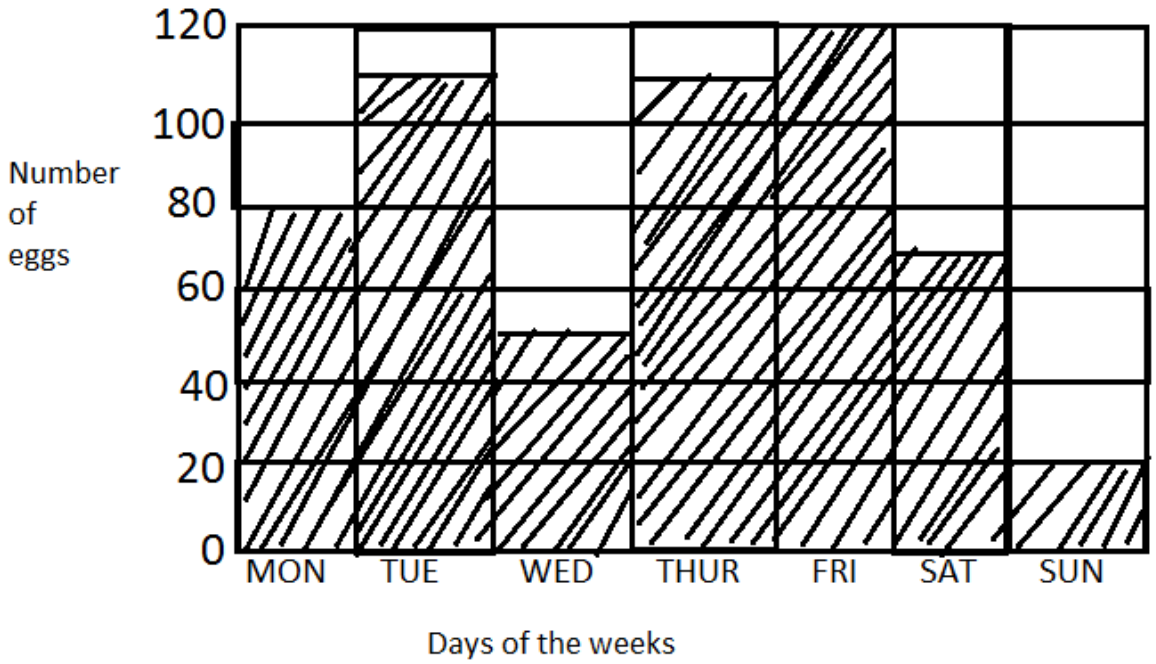
ITEMS	QUANTITY	UNIT PRICE	Amount
Sugar	3	Sh._____	Sh.9900
Maize flour	4 kg	Sh. _____	10,400
Cooking oil	$2\frac{1}{2}$ litres	Sh. 3000	Sh._____
Meat	_____kg	Sh. 6000	Sh. 9,000
Books	12 books	Sh._____	Sh. 48,000
TOTAL AMOUNT			

23. a)	Add the value of 5 and the value of 8 in the number 38457.	b)	Expand 6×10^3
24. a)	Round off 3674 to the nearest hundreds.	b)	Find the next number in the sequence. 12, 15, 18, 21, _____
c)	What is the greatest common factor (GCF) of 12 and 18?		

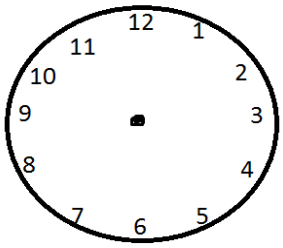
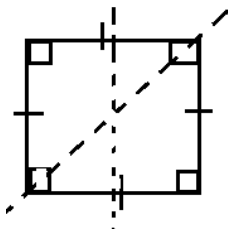
25. a)	Express 0.2 as a common fraction in its simplest form.	b)	Add: 3.46 + 15.2.
c)	Arrange $\frac{1}{6}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$ in ascending order	d)	Write $\frac{1}{4}$ as a decimal fraction.
26.	Show the lines of folding symmetry.		
a)		b)	
b)	Draw these shapes		
	Triangle	Trapezium	Cuboid
27.	There are 190 pupils in a class. $\frac{3}{5}$ of them are boys and the rest are girls.		
a)	Find the fraction of girls.	b)	How many boys are in the class?

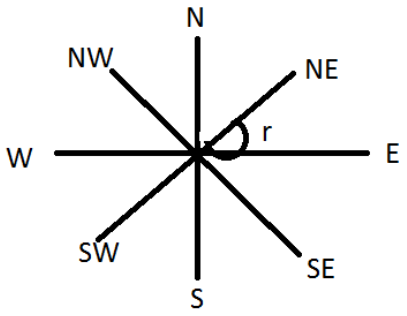
c)	How many boys are in the class than girls?	d)	Find the probability that a girl is picked at random to collect the books.
28.	Find the size o f the unknown angles below in degrees.		
a)		b)	Find the supplement of 35^0
c)	Draw a line segment of length 10cm.		
29.	The table below shows points scored by different houses in Summit Primary School. **HOUSE** / **POINTS** **Kob** 20 **Rhino** 50 **Zebra** 80 **Lion** 40 **Leopard** 10 **Crane** 40 **Tiger** 40	a)	What is the range of the points?
		b)	Calculate the modal score.
c)	Calculate the median score.	d)	Workout the mean score.

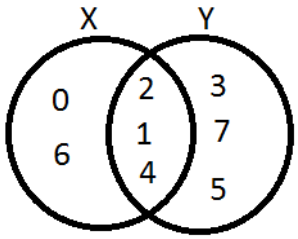
30.	Study the figure below and answer the questions that follow.  	a)	How many lines of folding symmetry has the above figure?
b)	Find the area of the above figure.	c)	If an insect moved around that figure , what distance will it cove?
31.	The figure below is a cuboid, use it to answer the questions that follow.  	a)	The above figure has: _____vertices _____edges _____faces
b)	Calculate the area of the shaded part.	c)	Calculate the volume of the cuboid above

32.	The graph below shows the number of eggs collected by Peter from his poultry farm in a week. 
a)	On which days was the collection of eggs the same
b)	How many more eggs were collected Wednesday than Sunday?
c)	How many eggs were collected from Monday to Friday?

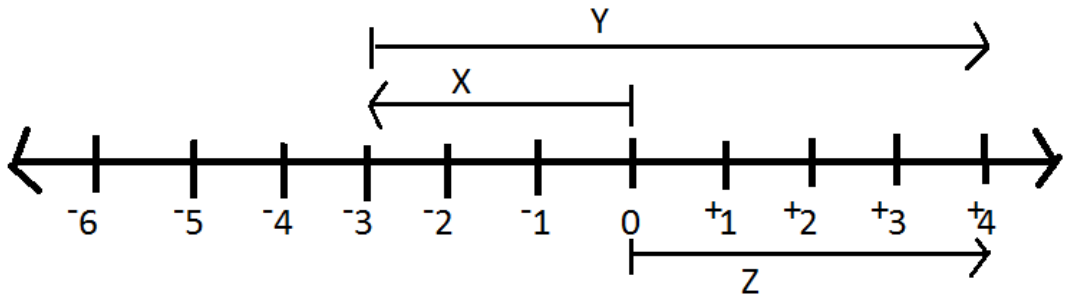
TEST 15

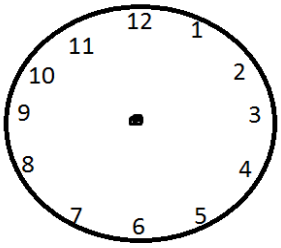
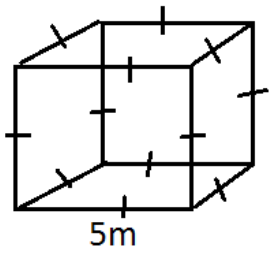
1.	Workout: 3 x 4	2.	Set K ={4,5,6,7}. How many members are in set K?
3.	Find the value of 9 in 491.	4.	Find the next number in the sequence: 1,3,5,7,9,_____
5.	Workout: $\frac{2}{3} + \frac{3}{4}$	6.	Show a half past 2 o'clock 
7.	Moshi bought a school bag for sh. 4,000. He sold it and made a profit of sh. 700. What was his selling price?	8.	Collect the like terms. 2y + 3y + y
9.	Represent -4 on the number line.	10.	Ssemuleme collected 18 oranges. Draw tallies to represent the oranges.
11.	Below is a square, add the missing lines of folding symmetry. 	12.	The mass of a brick is 9kg. express the mass to grams.

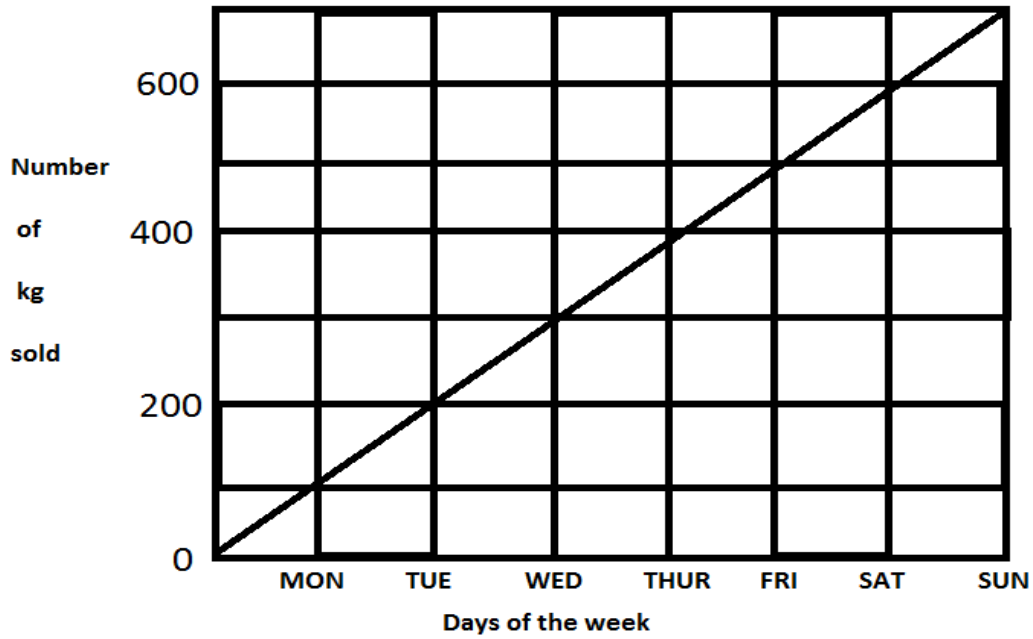
13.	On Sarah's farm, there are 19 sheep, 13 goats and 26 cows. How many animals are on the farm altogether?	14.	Convert $\frac{2}{10}$ to a decimal fraction.
15.	Workout: 4 + (2 x 3)	16.	Below are counting numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Circle the prime numbers.
17.	A science lesson started at 8.50am and ended at 9.50am. How long was the lesson?	18.	Mukosa travelled at a speed of 60km/hr in 3 hours. Calculate the distance he covered.
19.	Draw a line segment of length 5cm.	20.	How many degrees are represented by letter r? 
SECTION B			
21.	Rande went to the market with a note having banana plantations and bought the following items. ➢ 3 apples for sh. 800 each. ➢ 4 oranges for sh. 500 each orange. ➢ A heap of ten mangoes for sh. 2000		

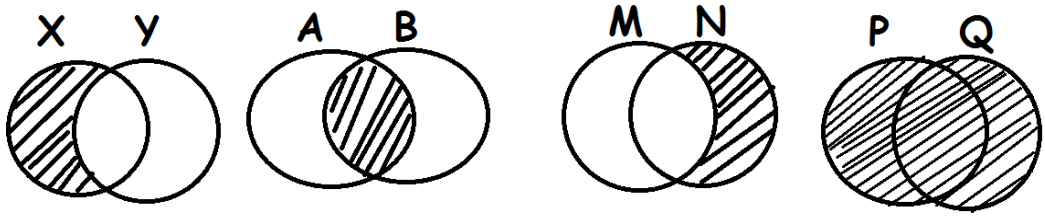
a)	How much did he spend altogether? b) Find his change.		
22.	Write 2041 in words.	b)	Expand 2041 using values
c)	Show 2041 on the abacus.		
23.	Study the venn diagram below and answer the questions that follow.  	a)	What is n(X u Y)?
b)	List the members of set X.	c)	Find X n Y.

24.	Shade $\frac{2}{3}$. 	b)	Simplify: $\frac{3}{7} + \frac{4}{7}$
c)	Jane had a loaf of bread. She ate $\frac{5}{8}$ of it in the morning. What fraction of the bread remained?	d)	Write $3\frac{1}{4}$ in words.
25.	What is the LCM 6 and 12?	b)	Find the sum of the first five odd numbers.
c)	Find the GCF of 6 and 9.		
d)	Reduce $\frac{16}{24}$ to its simplest form.		
26.	During a Sunday show at MM pub, 456 children, 238 men and 197 women attended.		
a)	How many adults attended the show?	b)	How many more children than men attended the show?

c)	If each child paid shs.1000, how much did the children pay altogether?		
27.	Use the number line below and answer the questions.  		
a)	Name the integers: Y: …….. Z: …… X: ……	b)	Write the mathematical statement shown on the number line.
c)	Without using a numberline, workout: $^{+}3 - 7$		
28.	Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of sides 4.5cm.	b)	Calculate its perimeter.

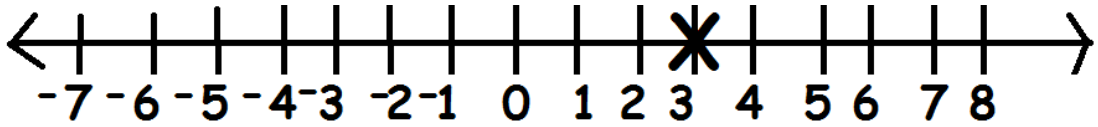
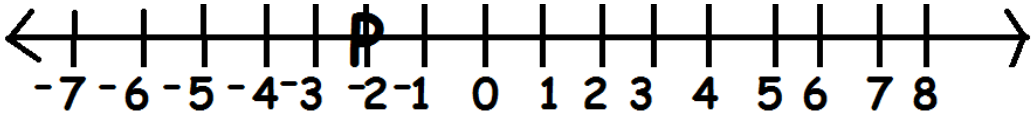
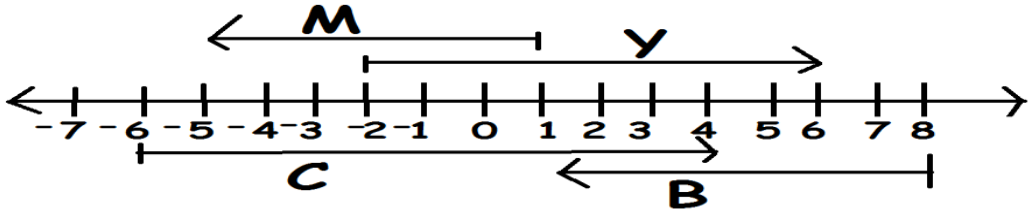
29.	Simplify: y + 2y + y	b)	Solve: X + 4 =9
c)	I think of a number, subtract 6 from it, the result is 4. What is the number?	d)	The perimeter of a square is 12m. find its sides.
30.	How many minutes are in $4\frac{3}{4}$ hours?	b)	Show a quarter to 8 0'clock. 
c)	Add: weeks days 4 3 + 5 4 _____ _____	d)	Change 3 years and 6 months to months.
31.	Below is a solid figure, use it to answer the questions that follow.  	a)	Name the above figure.
		b)	The figure has: _____vertices _____ edges _____faces

c)	Calculate its volume.	b)	Find the capacity of the above figure.
32.	The graph below shows the number of kg of beans sold in a week.  		
a)	Write kg in full.	b)	How many kg of bans were sold on Tuesday?
c)	When was 6000kg of beans sold?	d)	How many kg of beans were sold on Monday and Wednesday altogether?

No	TOPIC	**COMPETENCES**
1	OPERATIO N	1. Add: 45 + 23
		2. Subtract: 86 – 34
		3. Multiply : 43 x 2
		4. Divide : 86 by 3
2	SET CONCEPT	1. Set X ={all vowel letters} .How many members are in set X
		2. Set N = {Dan, Enoch}. List all the subsets of set N.
		3. Set M ={odd numbers less than 10}and set Y={even numbers less than 10}. Find (M ∪ N).
		4. Describe the shaded parts in the venn diagrams below 

3.	WHOLE NUMBERS	1. Round off the following as instructed: a) 48 to the nearest tens. b) 123 to the nearest hundreds. c) 6753 to the nearest thousands.
		2. a) Write down the place value of 7 in 67543 b) What is the value of 9 in 3492?
		3. Write 34 in roman numerals
		4. Convert XL IX in Hindu Arabic numeral.
4	FRACTIONS	1. Add : $\frac{2}{3}+\frac{1}{4}$
		2. Subtract : $\frac{4}{5}-\frac{3}{7}$

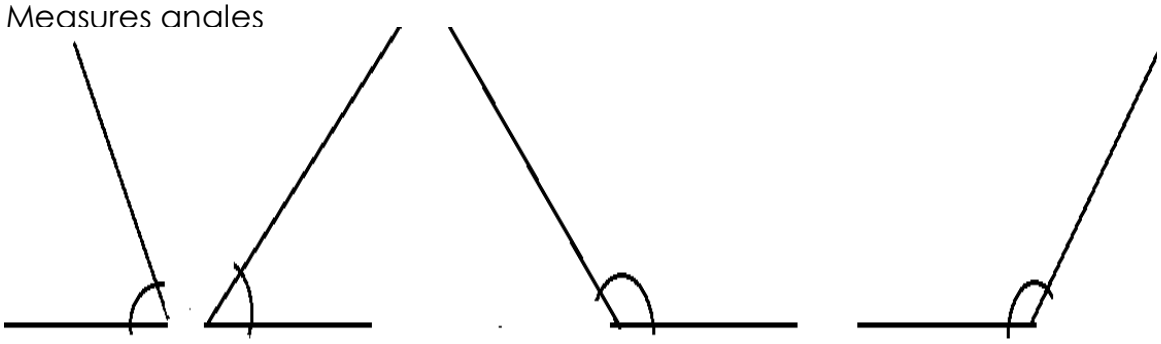
		3. Multiply : $\frac{4}{5} x \frac{2}{8}$
		4. Divide : $\frac{1}{3} \div \frac{1}{12}$
5	PATTERNS AND SEQUENCE	1. a) Find the sum of the missing numbers in the series; 10, 12, 14, 16, ____, 20,___, 24. b) add 45 to the next number in the sequence: 21, 23, 25, 27, 29,_____
		2. Finds the square of 36. b) Find the square root of 144.
		3. Find the next numbers in the sequences below. a) 1, 3, 5, 7, _____ b) 2, 3, 5, 7,_____
		4. Find the difference between the next numbers in the sequence: a) 86, 81, 76, 71, _____, _____

		b) 34, 27, 20,_____,_____
6	INTEGERS	1. Starting from point x, show $^{-}8$  b) Starting from point p , show $^{+}5$ 
		2. Finds the numbers represented on a numberline.  M = _____ Y= _____ C= _____ B= _____
		3. Find the inverse of the following a) $^{-}7$ b) 8

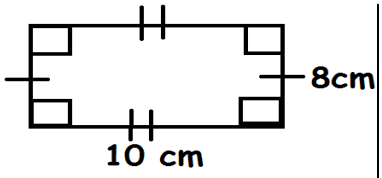
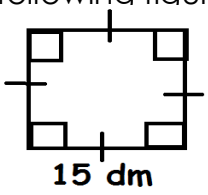
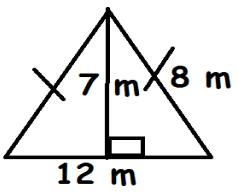
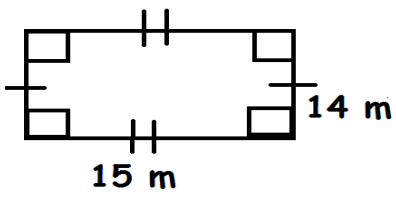
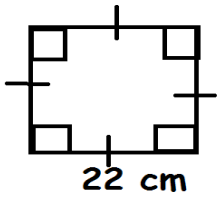
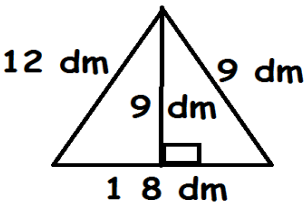
		c) $^{-}10$ d) $^{+}20$
7	DATA HANDLING	1. Given that  represents 12 balls, how many balls are represented by 
		2. If  represents 9 trees,draw the pictures to represent 63 trees.
		3. Complete the table below showing the marks scored by different pupils in a class.

Marks	Tally	Frequency
95	𝍸 |||	_____
90	_____-	12
99	𝍸 ||	_____
91	_____	9
85	𝍸	_____

4. What is the average of 24, 36 and 30?

8	LINES, ANGLES AND GEOMETRICAL FIGURES	1. Draw the following shapes and show the lines of folding symmetry a) Kite b) Semi circle b) Rectangle d)Square
		2. Name any two shapes with four right angles. i) _____ ii) _____
		3. Draw the following angles. a) 70^0 b) 55^0 b) 120^0 d) 145^0
		4. Measures angles 

9	TIME	1. Convert 3 hours to minutes
		2. How many hours are in 720 minutes?
		3. Add the following. Hours Minutes 3 3 5 + 2 5 3 Hours Minutes 5 5 0 + 2 2 0
		4. subtract the following Hours Minutes 4 2 5 - 2 3 0 Hours Minutes 7 3 8 - 4 5 5
10	MONEY	1. Dan and Enoch contributed some money to buy a television. If Dan contributed shs. 245000 and Enoch contributed shs. 365400. What was the cost of the television?
		2. The pictures below shows the buying price and selling price of a glass. Find the profit made if a shopkeeper sells the glass.  

		3. How much money does one pay for 8 geometry sets if one set costs shs. 1700?
		4. One apple costs shs. 1,200. How many apple will I buy if I have shs. 6000?
11	LENGTH, MASS AND CAPACITY	1. Convert 8metres to centimeters
		2. Change 350cm to metres.
		3. Find the perimeter of the following figures   
		4. Find the area of the following figures   

12	ALGEBRA	1. Solve for k: 5k + 7 = 32
		2. Find the value of p if 2p – 9 = 3
		3. Find the value of y. $\frac{y}{5} = 4$
		4. Given that 10m = 50. Find the value of m.
13	FRACTIONS	1. Write $4\frac{7}{8}$ as an improper fraction.
		2. Write $\frac{55}{7}$ as a mixed number.
		3. Write the next two equivalent fractions of $\frac{4}{9}$

		4. Use >,< or = to compare the following. (a) $\frac{1}{2}$……..……$\frac{1}{3}$ (b) $\frac{3}{4}$……$\frac{5}{6}$ (c) $\frac{9}{18}$……$\frac{3}{6}$
		5. Order the following integers as instructed a) $\frac{3}{8}, \frac{1}{2}, \frac{1}{4}$ in ascending order. b) $\frac{3}{5}, \frac{1}{6}, \frac{4}{15}, \frac{3}{10}$ in descending order.
14	PATTERNS AND SEQUENCE	1. Primefactorise 72 and write your answer in; a) Subscript form b) Multiplication form c) Power form

		2. What number has been primefactorised to give; a) $\{2_1,2_2,3_1,3_2,5_1\}$ b) 2 x 3 x 3 x 5 c) $2^2 \times 3^1 \times 5^2$
		3. Find the square of 16.
		4. Finds the square roots of 81.
15	WHOLE NUMBERS	1. Writing expanded number in short. a) (3 x10) + (4x100) + (7 x1) + (5 x1000) b) $(7 \times 10^3) + (9 \times 10^1) + (3 \times 10^2) + (8 \times 10^0)$

c) 9000 + 4 + 600+ 70

2. Expand 8654 using
   a) place values

   b) values

   c) Powers.

3. Identify the place value 4 in the following.
   a) 243_{five}

   b) 415_{seven}

   c) 234_{six}

4. Changing the following to base ten
   a) 134_{five}

   b) 146_{eight}

   c) 44_{five}

5. Changing the following as instructed
   a) 38_{ten} to base five

   b) 48_{ten} to base three

   c) 12_{ten} to base two

		d) 58_{ten} to base five
16	OPERATION ON WHOLE NUMBERS	1. Add: 3465 + 7684
		2. Subtract : 87635 – 56939
		3. Multiply 128 x 67
		4. Divide 14412 by 12
17	INTEGERS	1. Add $^{+}3 + {}^{+}5$ using a numberline.
		2. Workout 8 – 5 using a numberline.

		3. Find the additive inverse of $^{+}100$
		4. Draw a numberline and show $^{-}8$ starting from 5
18	LINES, ANGLES AND GEOMETRICAL FIGURES	1. Using a pencil, a ruler and a pair of compasses only, construct an angle of: a) 60^0 b) 90^0
		2. Using a pencil, a ruler and a pair of compasses only, construct a circle of; a) Radius 3cm b) Diameter 8cm

		3. Find the complement of 75^0 b) If k and 25^0 are complementary angles, find the value of k.
		4. Find the supplement of 125^0 b) If p and 65^0 are supplementary angles, find the value of p
19	FRACTION	1. Add the following a) 3 + 0.4 ii) 12+ 0.67 b) 5+ 6.9 ii) 19.4+ 12.67 c) 34.56+ 3.8

2. Subtract the following.
   a) 4 – 0.7 ii) 9 – 3.6

   b) 12.8 – 3.8 ii)25.87 – 5.8

   c) 12. 8 – 6. 23

3. Compare the following decimals using >,< or =
   a) 2.5_____3.7

   b) 0.08 _____0.04

   c) 0.86 _____0.4

   d) 0.09 _____0.2

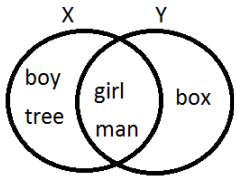
		4. Arrange the following in as instructed. a) 0.7, 0.77, 7.7 in ascending order. b) 0.33, 3.3, 0.333 in ascending order. c) 4.5, 0.45, 4.55, 45.5 in descending order. d) 2.2, 0.22, 0.02 in descending order.
20	DATA HANDLIN G	1. Find the mode of the following numbers a) 3,10,4,3,10,4,3,4,3,10,3,2

		b) 14,13,14,12,16,14,19,17,14
		2. Study the digits below and find the median score a) 56,40,45,61,30,35,48 b) 12,18,8,10,12,10,14,12,10,8
		3. Find the average or mean of the following numbers. a) 30, 34,33,41,32 b) 35, 30,35,25,35,40,45,30,27,43
		4. Find the range of the following numbers. a) 3,6,4,0,9

		b) 20, 86, 47, 30,19
1.	SETS	SECTION B QUESTIONS
		1. Given that set K ={a,b,c,d,e,f,g,h,i}and set M ={a,e,i,o,u} a) Find KnM b) Find n(K - M) c) How many elements are in set M only? d) d) Find n(K ∪ M)
		2. Set Y ={counting numbers less than 8} and set P ={first eight even numbers}. a) List down all the elements of set : i) P ii) Y b) Represent the above information on the venn diagram. c) Find; i) YnP ii) ii) P – Y iii) iii) n(Y n P)

d) How many members are in set Y u K?

3. Study the venn diagram below and use it to answer the questions that follow



a) Find n(X n Y)

b) How many members are in set X?

c) List down the subsets of set (Y – X)

d) How many subsets are in set (Y u X)?

4. In a class, 34 pupils like English (E), 19 like Science (S) and 9 like both.
   a) Draw a venn diagram representing the above information.

   b) How many pupils like
      i) English only?

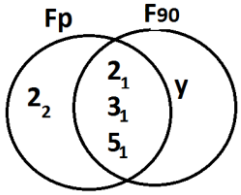
      ii) Science only?

      iii) One subject only?

		c) How many pupils are in the class?
2.	WHOLE NUMBERS	1. Given the digits 3,6 and 2 a) Write the smallest and largest three digit numeral formed using the above digits. b) Find the sum of the largest and smallest numeral formed. c) Find the difference between the value of 3 and the value of 2 in the smallest 3-digit numeral formed above.
		2. Given the number 2,354. a) Write the above number in words. b) Show the above number on the abacus. c) Expand the above number using Place values d) Find the sum of the value of 2 and the value of 4 in the above number.

		3. James picked 4587 oranges. a) Find the value of 5 in the above number. b) Find the place value of 8 in the above number c) Expand the above number using; i) Values ii) Exponents or powers
		4. Given the magic square below. If the table sum is 30, find the value of k, p,m and q. 11 k 13 m p 8 7 14 q
3.	PATTERNS AND SEQUENCE	1. a) Find the multiples of 6 between 10 and 50. b) Workout the LCM of 15 and 12

		c) Find the least number of oranges that can be shared by 8 pupils or 6 pupils leaving no remainder.
		2. a) find the factors of 18 c) Find the GCF of 24 and 16. d) How many factors does 12 have?
		3. a) Primefactorise 36 and 54 and give your answer in set notation form. c) represent the above information on the venn diagram

		c) using the venn diagram, find; i) GCF of 36 and 54 ii) LCM of 36 and 54
		4. Study the venn diagram below and use it to answer the questions that fol  a) Find the value of p b) Find the value of y c) Find the GCF of P and 90 d) Find the LCM of p and 90
4.	FRACTIONS	1. a) James used $\frac{3}{4}$ of the water in his jerrycan, write the remaining fraction of water as a decimal number.

c) David ate $\frac{1}{4}$ of the sugarcane in the morning, $\frac{1}{3}$ in the afternoon and the rest in the evening. What fraction of the sugarcane did he eat in the evening?

d) What is $\frac{7}{10}$ of 3400 mangoes?

e) How many $\frac{3}{5}$ litre bottles are contained in a 15 litre jerrycan?

2. Out of 300 members in a family, 60 are male adults, 150 are female adults and the rest are children.
   a) Write the fraction of ;
   i) males in the family

   ii) females in the family

b) Find the number of children in the family.

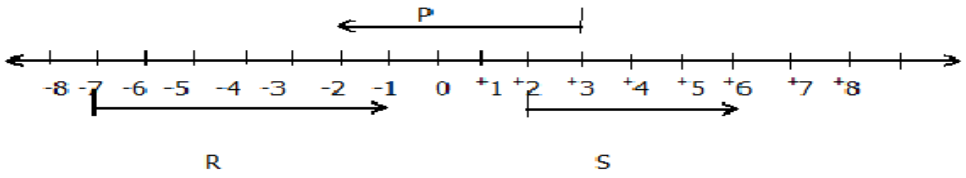
c) Find the total fraction of children and females

d) Find the total number of female and males.

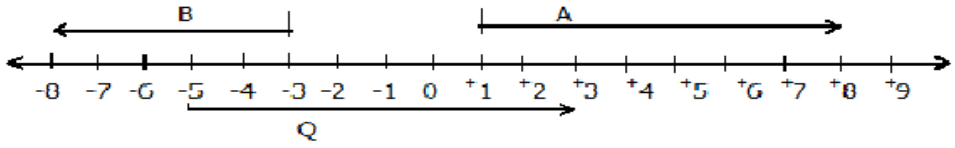
3. In a village of 690 farmers, $\frac{2}{3}$ of them grow maize and the rest grow sugarcane.
   a) Find the fraction of farmers who grow sugarcane.

   b) How many farmers grow maize?

   c) How many more farmers grow maize than sugarcane?

		d) If $\frac{2}{5}$ of the farmers who grow maize are males, how many female farmers grow maize?
		4. In a school of 5600 pupils, $\frac{1}{2}$ of them are in upper primary section, $\frac{2}{5}$ are in lower primary and the rest are in nursey section a) Find number of pupils in nursery section? b) If $\frac{3}{5}$ are boys in upper primary and $\frac{3}{10}$ are the boys in lower primary, how many boys are in the two primary sections
5.	INTEGERS	1. Study the numberline below and use it to answer the questions that follow. a) Find the value of p, r and s  P=_____ R=_____ S=_____

b) Find the value of a, b and a



B=_____ Q=_____ A=_____-

2. Arrange the following integers as instructed in the brackets.

a) $^{-}1, 2, ^{-}3, 4$ (starting with the smallest)

b) $^{-}2, ^{+}2, ^{-}3, ^{+}3$ (from the smallest)

c) $^{+}1, ^{-}2, ^{+}3, ^{-}4, ^{+}5$ (starting with the biggest)

d) $^{-}10, ^{+}1, ^{-}3, ^{+}5$ (starting with the biggest)

3. Use >,< to complete the following.(use a numberline)

a) 0____$^{-}2$

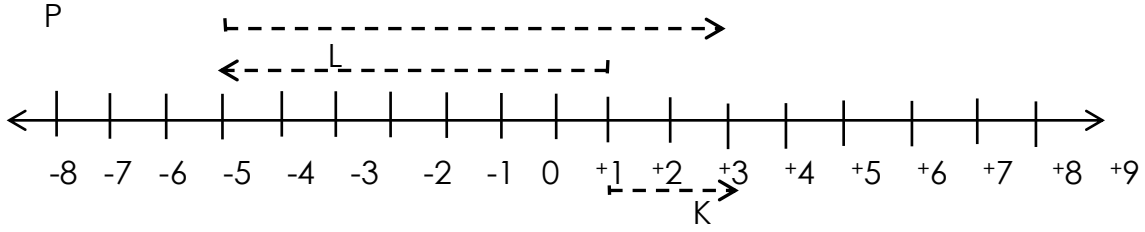
b) $^{+}3$____10

c) $^{-}4$_____0

d) +7 _____-3

e) -5_____+5

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



a) Find the values of;

i) L _____

ii) P _____

iii) K _____

b) Write the mathematical statements represented.

6.

1. The age of children in a village were recorded in years as follows.

2 4 7 3 4 2 3 4 5 3 4 4

4 5 6 4 3 6 5 2 3 3 5 6

Use tally marks to record the information above.

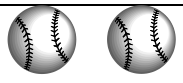
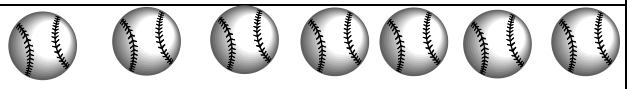
Age of pupils	Tallies	Frequency
2 years		
3 years		
4 years		
5 years		
6 years		
7years		

a) How many children of 3 years are in the village?

b) What is the total number of children that were recorded?

c) Which age has the highest number of children?

2. The picture graph below represents the number of balls given to different schools.

SCHOOL	NUMBER OF BALLS
NJERU P/S	
SALT AND LIGHT ACADEMY	
ST. ABIGAEL P/S	
SUMMIT P/S	

SCALE :  Represents 5 balls.

(a) Which school got the least number of balls?

(b) How many balls did Salt and Light Academy get?

(c) Which school got the biggest number of balls?

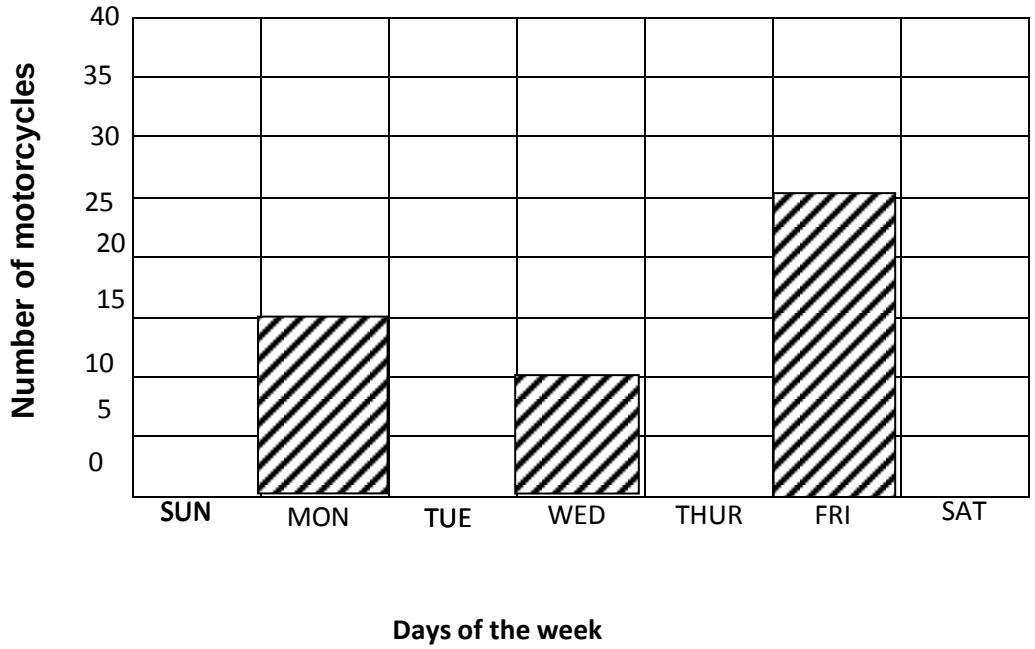
(d) How many more balls did Summit p/s get than Njeru p/s?

(e) How many balls were given out altogether?

3. A school boy recorded the number of motorcycles that passed by the school in one week.

Days of the week	MON	TUE	WED	THUR	FRI	SAT	SUN
No. of motorcycles	15	20	10	20	25	30	5

(a) Use the above table to complete the bar graph below.



(b) How many motorcycles were recorded in the first two days?

(c) How many motorcycles were recorded on Friday, Saturday and Sunday?

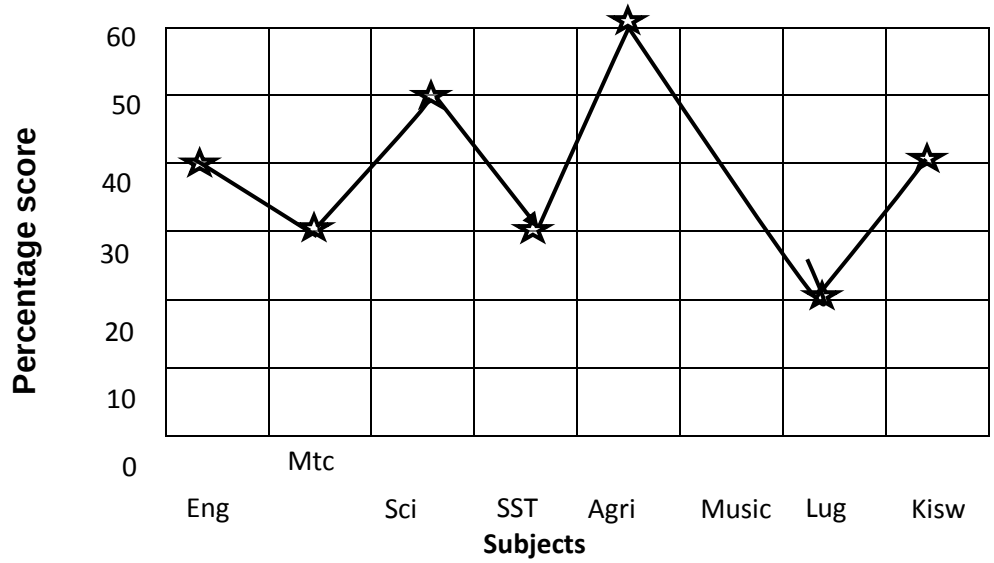
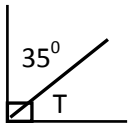
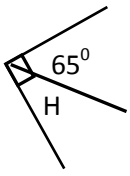
(d) What is the difference between the number of motorcycles recorded on Monday and Tuesday?

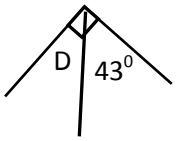
(e) Which day did he record the largest number of motorcycles?

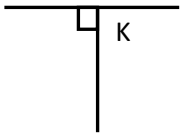
(f) Which days had the same number of motorcycles recorded?

(g) What was the total number of motorcycles recorded in the first three days?

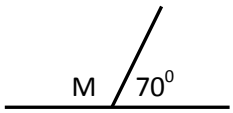
(h) What is the difference between the largest and smallest number of motorcycles recorded that week?

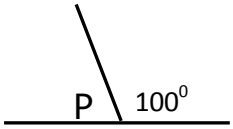
		The graph below shows the percentage score of a pupil in a class. Study it and answer the questions that follow  (a) What was the pupil's best subject? ---------- (b) What was the pupil's score in science?---------- (c) What was the pupil's lowest score? ---------- (d) How many marks did the pupil get in SST? ---------- (e) How many marks did the pupil score in music? ---------- (f) In which subject did the pupil score 60%? ---------- (g) In which subject did the pupil score 50%? ---------- (h) How many marks did the pupil score in English? ---------- (i) Which subject did the pupil miss?----------
7.	LINES ANGLES AND GEOMETRICAL FIGURES	1. Find the value of the unknown angles  

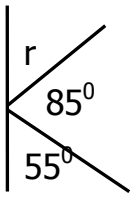


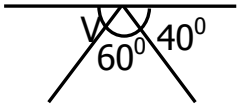


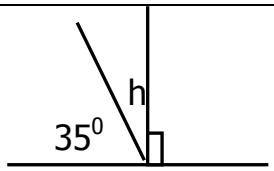
2. Find the value of the unknown angles

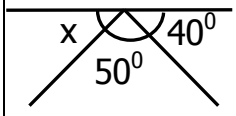






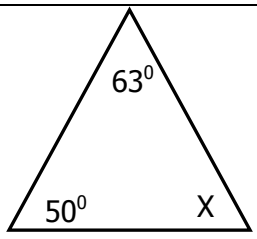




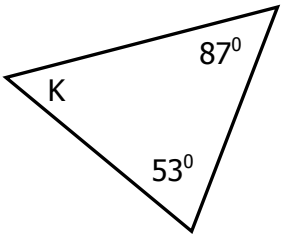


3. Find the value of the unknown angles

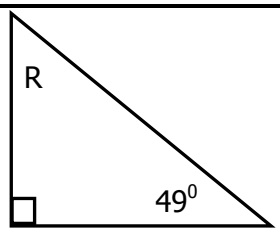
a)



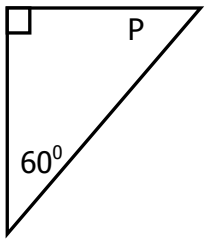
b)



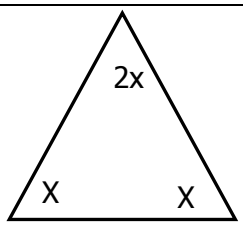
c)



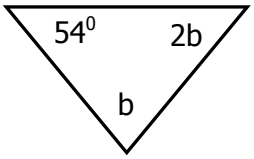
d)



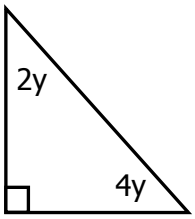
e)



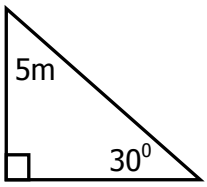
f)



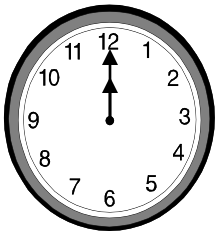
g)



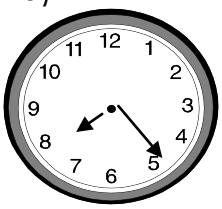
h)

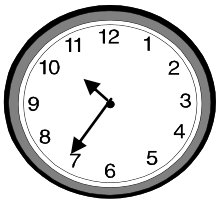


8.	TIME	1. Tell the time shown on the clockfaces below

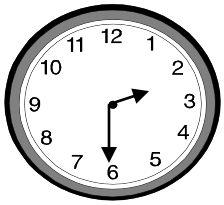


b)

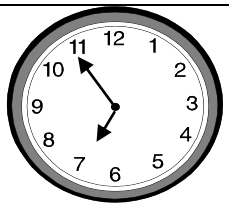


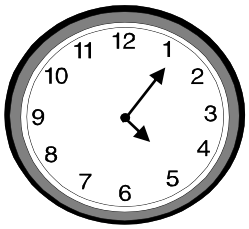


d)

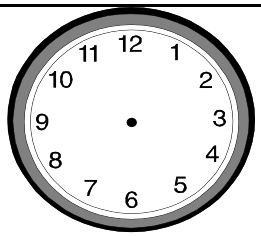


e)

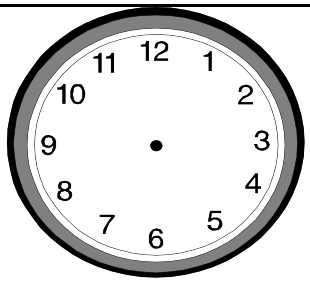




2. Show the time shown on the clockfaces below

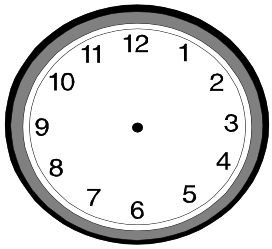


a)

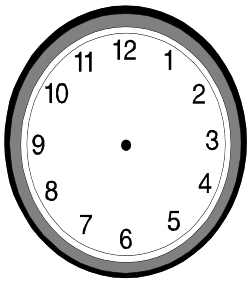


b)

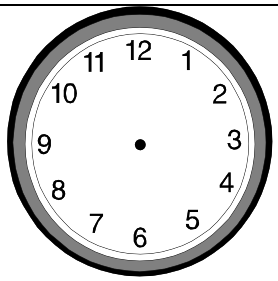
c)



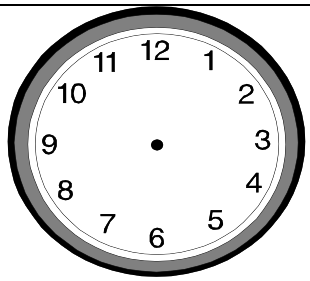
7 o'clock	8:30 pm	11: 45 am



d)



e)



25minutes to 6 o'clock	A quarter past 3	25 inutes to 10

3. a) Aman travelled a distance of 40km in 2 hours. At what speed was he travelling?

b) James covered a distance of 120km in 3 hours. Calculate his average speed.

c) Find the speed used by a cyclist to cover 180km in $1\frac{1}{2}$ hours.

4. a) Musa rode at a speed of 60km/hr for 2 hours. What distance did he cover?

b) A driver drove for 5 hours at a speed of 33km/hr. how far did he go?

c) Calculate the distance covered by a motorist at a speed of 55km/hr in 4 hours.

9.		5. a) Dan covered a distance of 120km. if he was moving at a speed of 40km/hr. for how long did he walk? b) What time will a bus use to cover a distance of 600km if it covers 120km in every hour?
10.	MONEY	1. The cost of one ruler is sh. 500. Find the cost of. a) 2 similar rulers at the same rate. b) 6 rulers at the same rate. c) 11 similar rulers at the same rate.
		2. The head teacher went for shopping and bought the following items; 3kg of beans at shs 1,800 each 2 loaves of bread at shs 2,800 @ loaf 2 Kg of ground nuts at shs 8,000

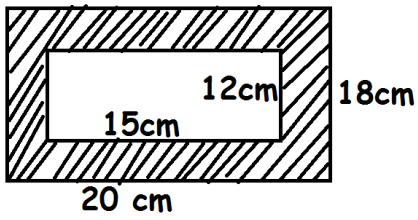
a) Calculate the total expenditure.

b) If the head teacher had a twenty thousand shilling note, how much money was left as change?

3. The table below shows the daily expenditure of okello's family. Use it to answer the questions that follow.

Item	Quantity	Unit cost	Total cost
Matooke	2 bunches	Sh. 2,000 each	Sh. _____
Beans	3Kg	Sh. _____per kg	Sh. 6,000
Tomatoes	3 heaps	Sh. 500 @ heap	Sh._____
Milk	_____litres	Sh. 1,200 per litre	Sh. 4,800
Total expenditure			Sh. _____

Fill in the above table

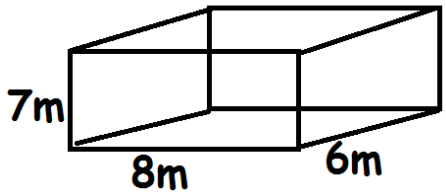
		4. Study the shopping list below. **ITEM** / **UNIT PRICE** Book — Shs. 5000 Bag — Shs. 10000 Uniform — Shs. 12000 Pair of shoe — Shs. 8000 Geometry set — Shs. 2000 a) How much will David pay for 2 books, 4 geometry sets and a pair of shoes? b) If Musa had a fifty thousand shilling note and bought a 3 bag and a uniform, how much change will he get? c) If Tr. Nakato had shs. 40000 and bought all the above items from the shop; i) How much did she spend? ii) What was her change?
11.	LENGTH, MASS AND CAPACITY	1. Study the figure below and find the area of the shaded part. 

2. A carpet measuring 12m by 11m was laid in the room measuring 14m by 13m.
   a) Calculate the area of the room.

   b) Find the area of the carpet.

   c) Find the area of the room which is not occupied by the carpet.

3. Below is a cuboid, use it to answer the questions that follow.

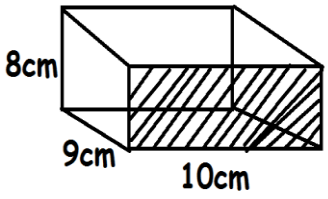


   a) The figure shown has;
      i) _____vertices
      ii) _____edges
      iii) _____faces

   b) Find the base area of the above figure

   c) Calculate the volume of the above figure.

4. Study the figure below and answer the questions that follow.



   a) Find the total distance around the shown figure.

		b) Find the total distance around the shown figure. c) Find the area of the shaded part. d) Calculate the volume of the figure shown
12.	ALGEBRA	1. If k = $\frac{2}{3}$ and m =12, find the value of; (a) k + m (b) km (c) m ÷ k
		2. If a = 4 b = 17 and c = 18. Find the value of; (d) a + b + c (b) 2a + c (e) $\frac{axc}{8}$

3. Given that x = 3, y = 2, and z = 5, evaluate;
   (i) $y^2 + x^2$

   (ii) xyz

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

4. a) I think of a number, add it to 6 the result is 18. Find the number.

   b) James had some mangoes, he gave 12 mangoes to his friend and remained with 15 mangoes. How many mangoes did he have at first?

   c) I think of a number, double it and add 10, the result is 20. What is the number?

   d) What number when multiplied by 3 and take away 7 from it, my result is 20?

13.	DATA HANDLING	1. James scored the following marks; 80, 90, 85, 80, 78. a) Find his median mark. b) Find his range c) Calculate his modal score.
		2. The points below where scored by a pupil in the recent sports activity; 4,3,2,3,5,3,8,4,3,5 a) Find her modal score b) Find her median mark. c) Find her range d) Calculate her mean score.

3. A boy scored the following marks in a weekly test out of 50.

Subjects	Marks
Mathematics	20
English	15
Social studies	35
R.E	30
Science	45

Calculate the boy's;

a) Average mark

b) Modal mark

c) Modular frequency

d) Range

e) Median

4. A girl scored the following marks in his weekly test; 80%, 40%, 20%, 70%, 40%.

a) What was her modal mark?

b) Determine her modal frequency

c) What was her median score?

d) Find her range

e) Calculate her average score

14.	LINES,ANGLES AND GEOMETRICAL FIGURES	1. Using a ruler, a pencil and a pair of compasses only, construct an equilateral ABC of length 5cm. a) Measure angle B b) Find its perimeter
		2. Using a ruler, a pencil and a pair of compasses only, construct an equilateral PQR where PQ = QR = RP = 6.5cm
	LINES,ANGLES AND GEOMETRICAL FIGURES	3. Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD of length 6cm and width 4cm

b) Measure its diagonal

c) Find its area

d) Find its perimeter

4. Using a ruler, a pencil and a pair of compasses only, construct a quadrilateral MEAT where ME =7cm and EA = 5cm

b) What name is given to the above quadrilateral?

c) Measure its diagonal

d) Measure;
   i) Line AT=_____
   ii) Line TM= _____

e) Find its area

f) Find its perimeter

	LINES,ANGLES AND GEOMETRICAL FIGURES	5. Using a ruler, a pencil and a pair of compasses only, construct a Square PQRS of length 6cm b) Measure its diagonal c) Find its area d) Find its perimeter
		6. Using a ruler, a pencil and a pair of compasses only, construct a quadrilateral PORK where PO =OR=RK =KP =5.5cm. b) What name is given to the above quadrilateral? _____ c) Measure its diagonal_____ d) Measure; i) Line KR =_____ ii) Line PK=_____

		e) Find its area f) Find its perimeter
	LINES,ANGLES AND GEOMETRICAL FIGURES	7. Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon using a circle of radius 5cm. b) Find its perimeter
		8. Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon using a circle of diameter 10 cm.

b) Find its perimeter

9. Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon ABCDEF using a circle of radius 4 cm.

b) Find its perimeter

c) What distance will one cover if he moves from;
   i) A to C

   ii) B to F

   iii) A to E