ENGAGE STRIVE THRIVE

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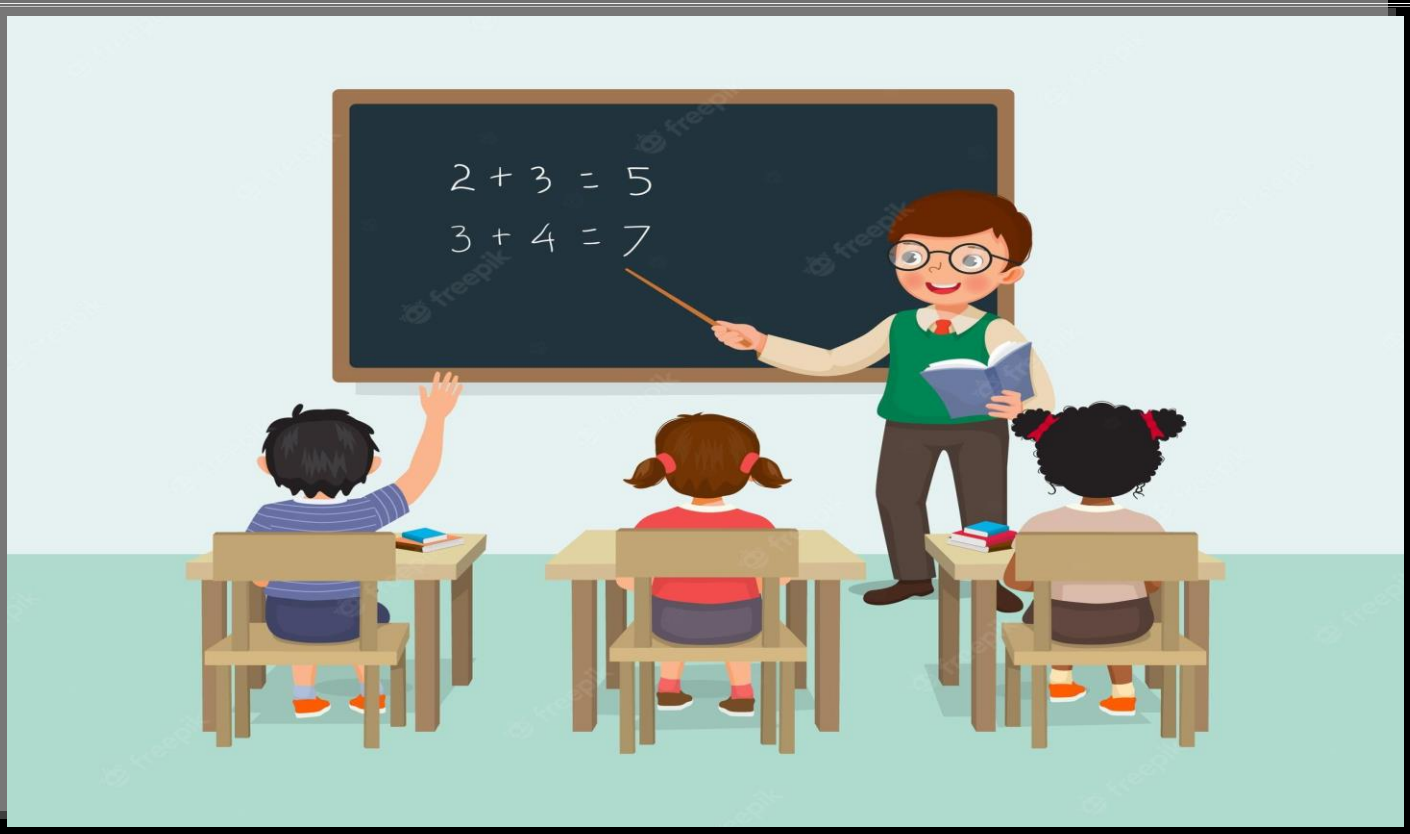
P.6 HOMEWORK PAMPHLET



NAME: .....

PAPER 1

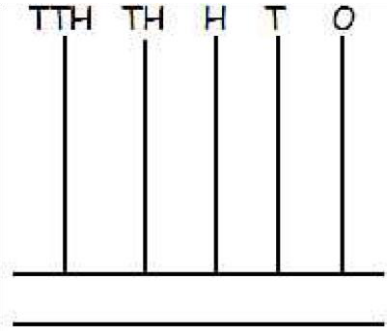
1. Subtract: 43 from 462.

2. Change 200 cm to meters.

3. Find the missing numbers in the sequence below :

   2, 3, 5, 7, _____, _____

4. Show 3,021 on the abacus below.

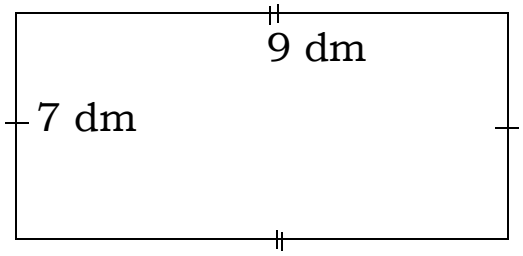


5. Find the missing number in:

   $\square \times 3 = 105$.

6. Show correctly a quarter to nine in the morning on a clock face.

7. Find the area of the figure below:

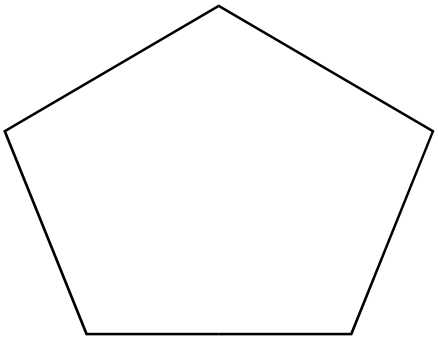


8. Work out: $5\frac{1}{4} + 6\frac{1}{4}$.

9. Given that set M= {even numbers less than ten}; find the number of subsets of M.

10. The unit cost of a bag is sh. 3,600, how many such bags can Emmanuel buy with sh. 7,200?

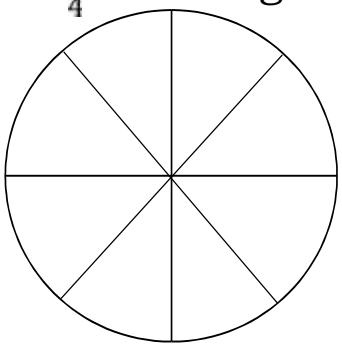
11. Name the shape below:



_____

12. Mary sells oranges in groups of threes for sh.500 each. How much money will she get if she has 15 such groups?

13. Shade $\frac{3}{4}$ of the figure below

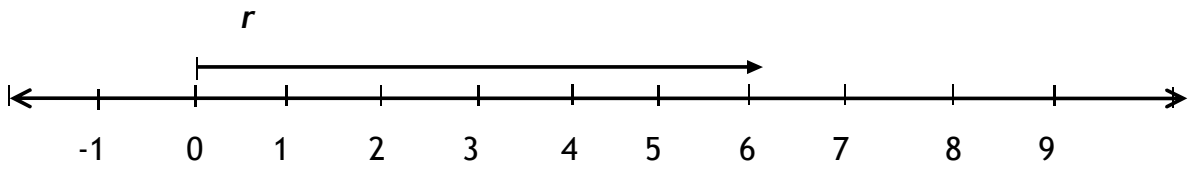


14. Work out:

	kg	**g**
	15	650
+	5	805

15. Using a ruler, sharp pencil and a pair of compasses only construct an angle of 90^0 in the space below.

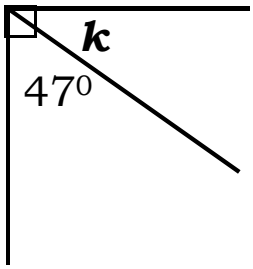
16. Write the value of ***r*** on the number line below:



r= _____

17. Round off 6,805 to the nearest hundreds.

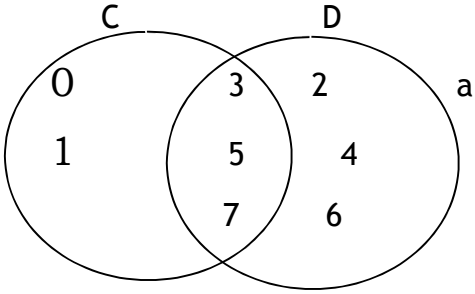
18. Find the value of ***k***.



19. Joram bought a goat for sh.85,000 and sold it for sh.97,000. Calculate the profit he got.

20. If  represents 250 books. How many books are represented by  ?

21. Use the Venn- diagram below to answer the following questions:



a) List all the members of set C. ***(1 mark)***

b) Find: C∩D ***(1 mark)***

c) How many members has set D-C? ***(2 marks)***

22. Tom is ***18*** years old. Alice is ***7*** years older than Tom.

a) Find the age of Alice? ***(1 mark)***

b) Calculate their total age? (2 marks)

C) How old was Tom ten years ago? (2 marks)

23 In a group of 40 pupils, $\frac{1}{4}$ of them like swimming and the rest like playing football.

(a) What fraction of the pupils like playing football? ***2 marks)***

(b) Find the number of pupils who like:

(i) swimming ***(2 marks)***

(ii) football ***(2 marks)***

24. Shadia gave mangoes to her friends as follows:
Sumaiya got 58 mangoes, Shakirah got 104 mangoes and Shamira got 26 mangoes.

(a) Who got the least number of mangoes? ***(1 mark)***

(b) How many mangoes did Shadia give to her friends altogether? ***(1 mark)***

(c) Find the difference between the number of mangoes Shakirah and Shamira got.
(2 marks)

25. Mr. Kasasa had the following number cards:

6	0	5	7

(a) Form the smallest four digit number using the above digits. ***(1 mark)***

(b)Form the largest four digit number using the above digits. ***(1 mark)***

(c) Find the value of 5 in largest number formed. ***(2 marks)***

24. Use the shopping list below to answer the following questions:

Items:	**unit cost:**
1 packet of salt	sh. 800
1 kg of sugar	sh. 3,600
1 bar of soap	sh. 3,000

(a) Find the total cost of a kg of sugar and 2 bars of soap. ***(2 marks)***

(b) How much will John pay for 4 packets of salt? ***(2 marks)***

(c) Calculate the total cost of 1 kg of sugar, 1packet of salt and 1 bar of soap. ***(1 mark)***

27. (a) A meeting started at 9:10 a.m. and ended at 9:50 a.m.

How long was the meeting? ***(2 marks)***

(b) Convert 3½ into minutes. ***(2 marks)***

(c) Subtract: ***(2 marks)***

Hrs.	**Mins.**
6	25
- 4	45

28. Simplify:

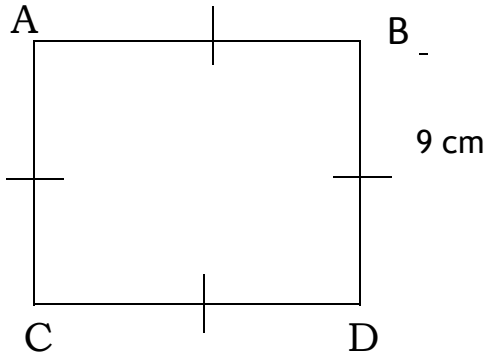
a) 3m + 5t – m + 4t ***(2 marks)***

b. Solve: ***(2 marks @)***

(i) h + 7 = 21

(ii) 49 ÷ y = 7

29. The diagram below is of a square. Use it to answer the following questions:



a) Find the length of the line segments:

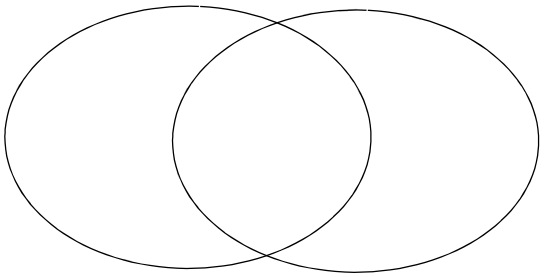
CD = _____ ***(1 mark)***

b) Work out the distance round the figure. (2 marks)

c) Calculate the area of the figure. (2 marks)

30. (a) Given PF $_{45}$ ={3_1, 3_2, 5_1} and PF $_{60}$ ={3_1, 2_1, 2_2}, show them on the Venn diagram below: ***(3 marks)***

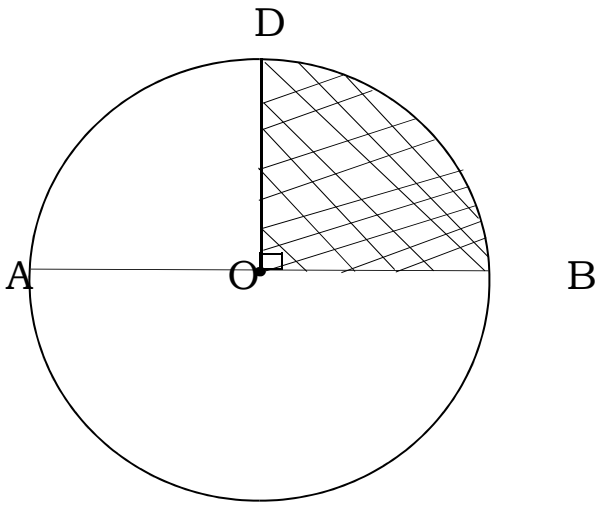
PF_{45} PF_{60}



a)Find the GCF of 45 and 60 using the Venn diagram. ***(1 mark)***

b) Find the L.C.M of 45 and 60. ***(2 marks)***

31. Study the figure below and answer the questions that follow:



(a) Name the lines marked:

(i) AB ***(1 mark)***

_____

(ii) OD ***(1 mark)***

_____

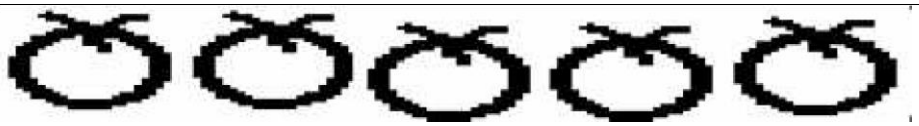
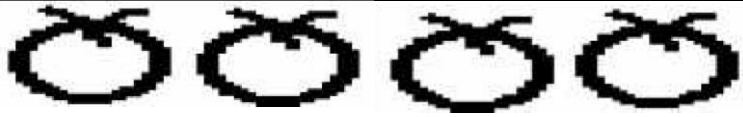
(b) Name the shaded part of the figure above (1 mark)

_____

(c) If OD = 14 cm, find the length of AB. ***(2 marks)***

32. Given  stands for 5 oranges.

Study the weekly sale for Derrick and answer the questions

Days:	***No of oranges:***
Sunday	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

(a) How many oranges were sold on Thursday? ***(1 mark)***

(b) Find the total number of oranges he sold in the seven days of the week. ***(1 mark)***

(c) How many more oranges did he sell on Wednesday than Thursday? ***(2 marks)***

PAPER 2

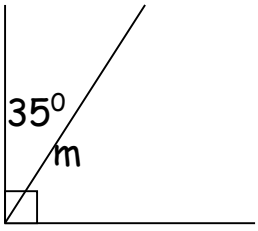
1. Subtract 27 from 93.

2. Write 34 in Roman Numerals.

3. Given that A = {1, 2, 3}. Find the number of subsets in set A.

4. Work out: $4 \frac{}{} \overline{9}$

5. Find the size of angle marked m in the figure below.



6. Sophia has a string measuring 0.125km. Express this length in meters.

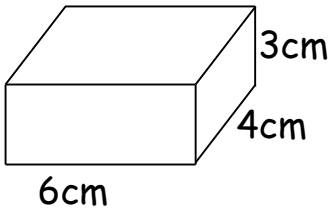
7. Find the next number in the sequence; 2, 3, 5, 7, ____,_____

8. Hafuwah scored the following marks in three consecutive tests; 16, 10 and 32. What was her average score?

9. Given that g = 2 and h = 3, find the value of 2g + 3h.

10. Convert 23_{five} to base ten.

11. Calculate the volume of the figure below.



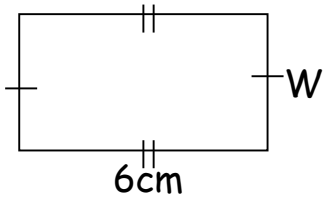
12. In the space below, draw an angle of 70^0 using a protractor, ruler and a well sharpened pencil.

13. Simplify: $\frac{1}{4} + \frac{2}{6}$

14. Write "**fifty thousand fifty five**" in figures.

15. A car covered a distance of 180km after travelling for 2 hours. Calculate its average speed.

16. The area of the rectangle below is 30cm^2. Find its width, (W) if the length is 6cm.



17. Peter bought 500gm of sugar at Shs. 2000 a kg. How much money did he pay for sugar?

18. Change 5½ hours to minutes.

19. A milkman packs 20 liters of milk in $\frac{1}{4}$ liter packets. How many $\frac{1}{4}$ liter packets does he get?

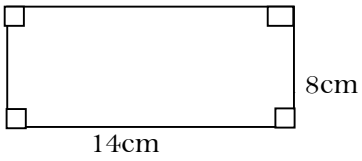
20. How many dozens are there in 48 items?

21. Given that;
A = {All prime numbers less than 10). B = {All odd numbers less than 10} Find n (B – A)

22. List down all the factors of 24.

23. Jorine bought 5kg of maize flour at sh.2000 per kg. How much money did Jorine spend on maize flour?

24. Calculate the total distance around the figure below.



25. An examination which took 2hrs started at 10:15am. At what time did it end?

26. Add: $\frac{1}{2} - \frac{1}{3}$

27. Christine who was facing the West turned anti clockwise through an angle of 90^{o}. Which direction is she facing now?

28. What is the square of 6?

29. Round off 984 to the nearest tens.

30. Workout: $404 \div 2$

31. Given 4,809. What is the place value of 0?

32. Construct an angle of 45^{o}

33. How many lines of folding symmetry has a kite?

34. What is the sum of the first 4 prime numbers?

35. Add: 8.04 + 76.

36. What is the supplement of 106^{o}?

37. What number is divided by 3 and gives 7 as the answer?

38. Change 12kg to grams.

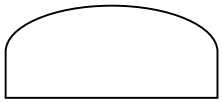
39. A tray of eggs was bought at sh.12000. If the tray had 30 eggs, how much was each egg?

40. Set Q = {m,a,l,e} and set P ={l,a,m,e} find n(Q ∩ P).

41. Write 25.4 in words (without using" point")

42. 120^{o} and X are supplementary angles. Find X.

43. How many lines of folding symmetry has a semi-circle (show them).



44. Work out: $(\frac{1}{2}$ of 20) + $(\frac{2}{3}$ of 90)

45. What is the Hindu Arabic equivalent of MCMXCVII?

46. Simplify: $3x + m + x + 2m$.

47. Using a pair of compass, ruler and pencil only, construct the angles.

I) 120^{o}

II) 45^{o}

48. Write in words: 4018.

49. Add:
$$\begin{array}{r} 1\ 0\ 1\ 1_{two} \\ +\ 1\ 1\ 1_{two} \\ \hline \end{array}$$

50. If A = {0, 1, 2} How subsets has set A?

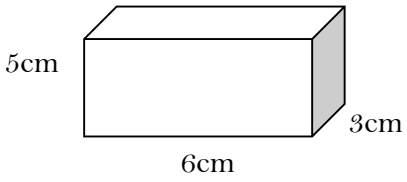
51. Write 35.4 in expanded form using powers of 10.

52. Multiply: 453 x 25.

53. Convert 23_{five} to a decimal base.

54. Use the diagram below and answer the questions that follow.

a) Name the solid object. _____



b) Calculate its shaded area

55. Timothy was born in the year 2010. Express Timothy's date of birth in Roman numeral.

56. Convert 3500m to kilometers.

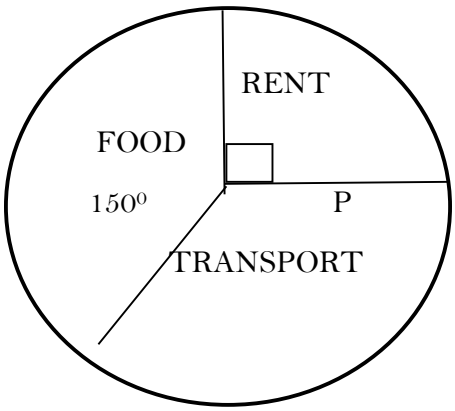
57. A flight started at 4:40pm and ended at 10:50am. How long was the flight?

58. Add: $^{+}3 + {}^{+}2$.

60. Workout: -3-2.

61. Below is a pie chart. Use it to answer the questions that follow.

(a)Find the value of p. (2 marks)



b) If Mr. Abby earns sh. 72,000 monthly, how much more money does he spend on food than on transport? (3marks)

62. Multiply: 0.3×1.2 **(2 marks)**

62. Rene scored the following marks in a series of tests.

70 60 , 40 , 60 , 80 , 50

a) How many tests did he do? (1 mark)

c) Work out his range. (2 marks)

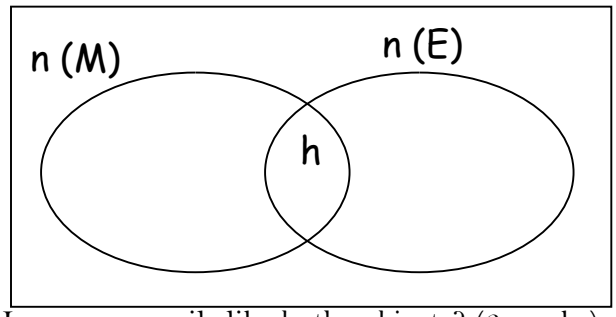
b) What is his modal mark? (1 mark)

d) Calculate his average mark. (2 marks)

63. In a class of 60 pupils, 32 like Math (M) and 40 pupils like English (E) while h pupils like both.

a) Represent the above information on the Venn diagram below. (2 marks)

n (ℰ) =



b) How many pupils like both subjects? (2 marks)

c) How many pupils like only one subject? (2 marks)

64. In a class of 120 pupils, $\frac{2}{5}$ of them are girls and the rest are boys.

a) Find the fraction for boys. (1 mark)

b) How many girls are in that class? (2 marks)

c) How many more boys than girls are in the class? (3 marks)

65. a) Solve for y: $2y - 6 = 6$ (2 marks)

b) Simplify: $2(h + 3m)$ (2 marks)

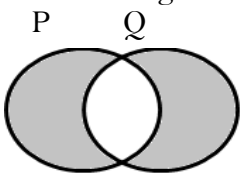
PAPER 3

SECTION A (40 MARKS)

1. Multiply: 23 X 4

2. Write "Four hundred ninety six" in figures.

3. Describe the shaded region below.



4. Write CXLII in Hindu-Arabic numerals.

5. A taxi carries 14 passengers per trip. How many trips can it make for 70 passengers?

6. Convert 12:15p.m to a 24 hour clock system.

7. Round off 5948 to the nearest hundreds.

8. Use distributive property to simplify: (2.5 X 56) + (2.5 X 44)

9. Simplify: -6 - +2

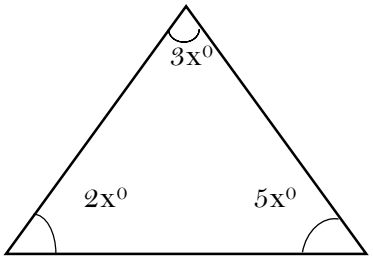
10. Find the greatest common factor (GCF) of 18 and 24.

11. Given the exchange rate as US$1 = Ug.sh 3000. How much money in Uganda shillings is equivalent to US$ 40?

12. Given that a = -2, b = -3, find the value of 2a + 2b.

13. Find the square root of 6¼.

14. Find the value of x in the triangle below.



15. Change 231_{four} to a decimal base.

16. A bus was driven at a speed of 72km/hr. Express its speed in metres per second.

17. Find the next number in the sequence below;

    2, 4, 7, 12, 19, _____

18. Solve for: $3(x - 2) = 9$

19. A driver covered 3/5 of the journey. If he still had 20km to cover. How long was the whole journey?

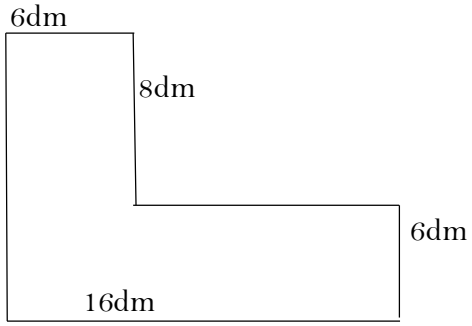
20. Simplify: $y^5 \div y^3$

SECTION B (60MARKS)

21. a) Simplify: $\frac{0.24 \times 1.8}{0.4 \times 0.9}$ (3 Marks)

b) Workout: $\frac{1}{2} + \frac{4}{9} \div \frac{2}{3}$ (2 marks)

22. Study the figure below carefully and answer the questions that follow.



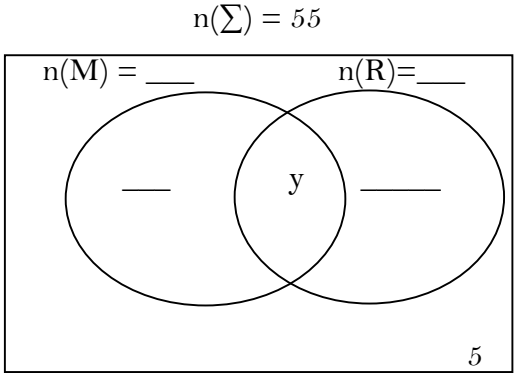
a) Find the perimeter of the above figure. (3marks)

b) Workout its area.

(2mark)

23. In a class of 55 pupils, 30 pupils eat Matooke (M), 25 eat Rice (R), some pupils eat both while 5 pupils do not eat any of the two.

a) Show the above information on a venn diagram. (2marks)



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

c) What is the probability that a pupil picked at random eats only one type of food? (1 mark)

24. John was given number cards 5 2 4 and was told to form numbers.

a) Write all the three digit numbers formed. (3marks)

b) What is the sum of all the even numbers formed? (2marks)

25. Two YY buses leave Mbale to Kampala and Lira after every 30 minutes and 40 minutes respectively.

a) After how long will the buses leave together? (3marks)

b) If they left together at 8:30a.m, when will they leave together again? (2marks)

26. The table below shows marks scored by the pupils in a Mathematics test. Use it to answer the questions that follow.

Marks scored	70	50	60	80
Number of pupils	3	2	4	1

a) How many pupils did the test? (1mark)

b) What is the modal mark? (1 mark)

c) Calculate the average mark scored. (3marks)

27. a) Given that $23p = 15_{ten}$, find base p. (3marks)

b) If today is Wednesday, what day of the week will it be after 65 days? (2 marks)

28. The table below shows the items Isaac bought from the market. Study it carefully and answer the questions that follow.

Item	**Quantity**	**Price**	**Amount**
Meat	2kg	Sh. 8000 per kg	Shs.....
Cooking oil	.....litre	Sh. 4000 per litre	Shs. 2000
Posho	3kg	Sh..... per kg	Shs. 6000
Rice	1¼ kg	Sh.....per kg	Shs. 2500
Total expenditure			Shs.....

a) Compete the table above. (5 marks)

c)If Isaac remained with sh. 4,500, how much money did he go with?
(1mark)

29. a) Using a ruler and a pair of compasses only, construct a regular hexagon of radius 3cm.
(3marks)

b) Workout the distance around the figure. (1mark)

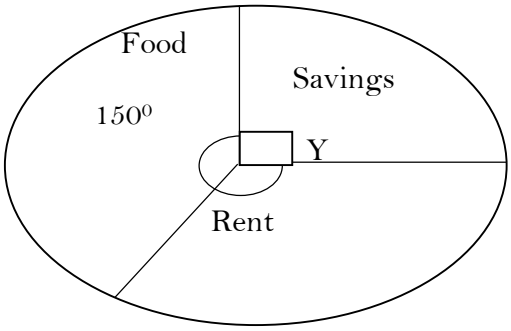
30. A parent had sh. 72,000 for his three children's pocket money. Doreen, Joy and Benjamin. If he distributed the money in the ratio of 3:5:4 respectively;
a) How much did each get?
(3marks)

b) How much more money did Jane get than Betty? (2marks)

31. a) Solve for X: $2(2x + 2) - 2(x + 3) = 12$. (2marks)

b) Solve the inequality $3m + 4 > m + 8$. (2marks)

32. The pie-chart below shows how Mr. Rene spends his monthly salary of sh. 360,000 per month.



a) Find the value of y. (1 mark)

b) How much money does he spend on rent? (2marks)

c) How much more does she spend on food than savings? (3marks)