SECTION A: 40 MARKS

Questions 1 to 20 carry two marks each.

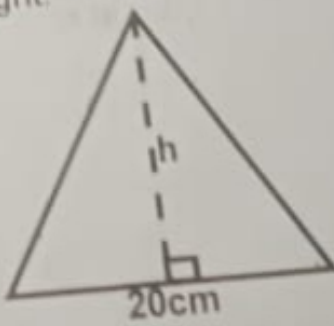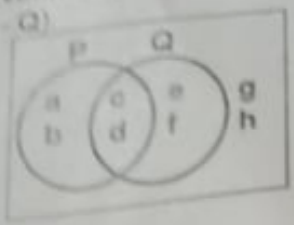|			
1	Work out: $\frac{7}{9} - \frac{2}{9}$	2	Write XXV in words.
3	Find the next number in the sequence below. 4, 6, 8, 9 _____ _____	4	Solve for X in. $X + 5 = 25$
5	Simplify: $3 - ?$	6	Teacher Aminah put 5 black pens and 4 red pens in a tin. What is the probability that a pen picked at random is red?
7	Tom sold a goat at sh. 160,000 making a profit of sh. 20,000. How much had he bought the goat?	8	Akello was moving towards North and she turned clockwise to face Southeast. Through what angle did she turn?

9	Convert 5
11	John Mond Tues he b
13	Ki Ka ye
15	

9. Convert 5000ml into litres	10. Given that set V = {p, e, n}. List all subsets of set V.
11. John bought 157 apples on Monday and 148 apples on Tuesday. How many **apples** did he buy altogether?	12. The average weight of five boys in a class is 31kg. If their teacher joins them, their total weight becomes 225kg. What is the weight of their **teacher**?
13. Kityo is **10 years older than** Katamba. If their total age is **50** years. How old is Kityo now?	14. Angel was given **10%** discount after buying a radio worth sh. 40,000. How much was the discount?
15. With the help of a ruler, a pencil and a pair of compasses only, construct an angle of 60°.	16. The area of the triangle below is **120 sqcm**. If its base is **20cm**. Find its height.

| | | 18 | Convert 36km/h into m/s. | | 22a) |

17 Use the venn diagram below to find $n(P - Q)$.

19 The LCM of two numbers is 120 and their GCF is 2. If the first number is 40, find the second number.

20 Work out:

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array} \quad \begin{array}{r} 2_{five} \\ 2_{five} \\ \hline \end{array}$$

SECTION B: 60 MARKS

Marks for each part of the question are indicated in the brackets.

21 In a Primary Six of 120 pupils, 30% are boys and the rest are girls.

a) Find the percentage of girls in the class.

(01 mark)

b) How many boys are in the class?

(02 marks)

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

(01 mark)

22a) With the help of a pencil, a ruler and a pair of compasses only, construct a square ABCD of sides 8cm.

(04 marks)

b) Work out the total distance around the figure above.
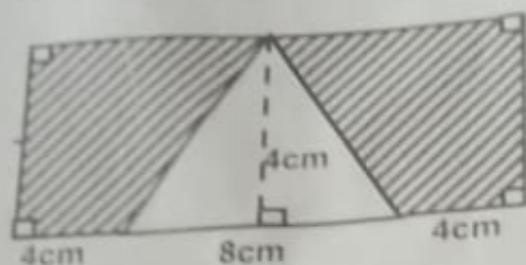
(01 mark)

23a) Work out: $5m + 3n - m + 2n$	b)	The cost of a chair is **sh 30,000** more than the cost of a door. If both items cost sh.90,000. Find the cost of **each** item.
(02 marks)		(03 marks)

24. Study the figure below carefully and use it to answer the questions that follow.

4cm   8cm   4cm   4cm

a) Calculate the area of the inner figure.

(02 marks)

b) Work out the area of the rectangle.

(02 marks)

c) Calculate the area of the region.
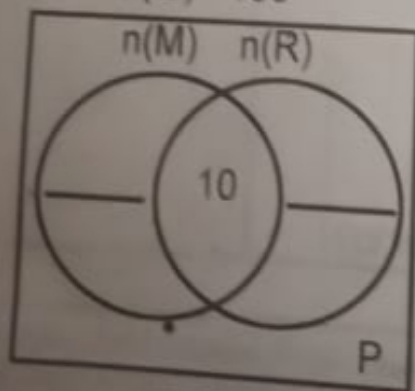
(01 mark)

25. In Kiwafu Village of 150 farmers, 30 farmers planted maize only (M), 43 farmers planted rice (R) only, 10 farmers planted both crops while P farmers did not plant any of the two crops.

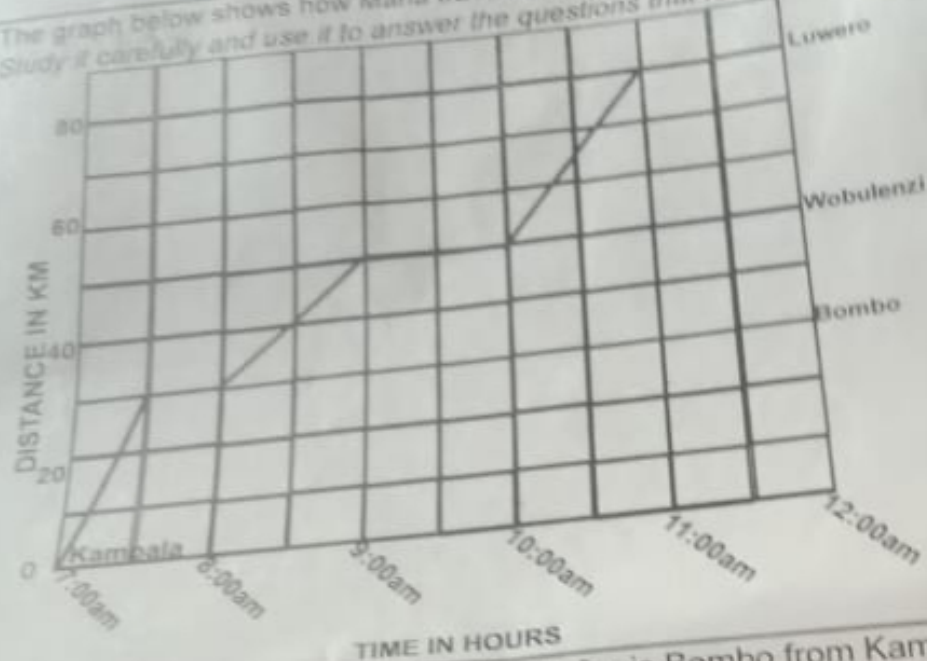a) Use the above information to complete the venn diagram below.

n(Σ) = 150

n(M)   n(R)

10

P

(02 marks)

b) How many farmers planted	c) Find the number of farmers who did not plant any of the two crops.
i) maize?	
ii) rice?	
	(02 marks)
(01 mark)	

26. Mr. Kitamilike left his home at 7:30a.m driving at a steady speed of 90m/h and arrived at school at 9:00a.m the same day

a) For how long did he take to reach at school?	b) Calculate the total distance covered by Mr. Kitamilike.
	(02 marks)
(02 marks)	

27a) Expand 4,395 using powers of ten.

(02 marks)

b) Amron was given three cards: ⬚6 ⬚4 ⬚9

Form the **smallest** and the **biggest** three digit numbers from the above cards.

(02 mar

28 | The graph below shows how Maria travelled from Kampala to Luwero. Study it carefully and use it to answer the questions that follow.

DISTANCE IN KM (y-axis: 20, 40, 60, 80)

Kampala, Luwero, Wobulenzi, Bombo

TIME IN HOURS (x-axis: 7:00am, 8:00am, 9:00am, 10:00am, 11:00am, 12:00am)

a) At what time did she depart from Kampala?	b) How far is Bombo from Kampala?
(01 mark)	(01 mark)
c) For how long did she take while resting at; i) Bombo? (01 mark) ii) Wobulenzi? (01 mark)	d) At what time did he arrive at Luwero? (01 mark)

29 Study the exchang... questions that fol...
1 US ... = Ug ...
1 British Pound ...
1K sh

a) How much in U... will one get if ... dollars?

30 The su... even n
a) Find t...

Study the exchange rate below carefully and use it to answer the questions that follow.

1 US Dollar = Ug sh 3600
1 British Pound Sterling = Ug sh 4000
1K sh = Ug sh 30

a) How much in Uganda shillings will one get if he has 200 US dollars?

(02 marks)

b) Nakiwala had 400,000 Kenya shillings, how much will she get in British Pound Sterling?

(03 marks)

30 The sum of three consecutive even numbers is 66.

a) Find the numbers.

(04 marks)

b) Work out their range.

(02 marks)

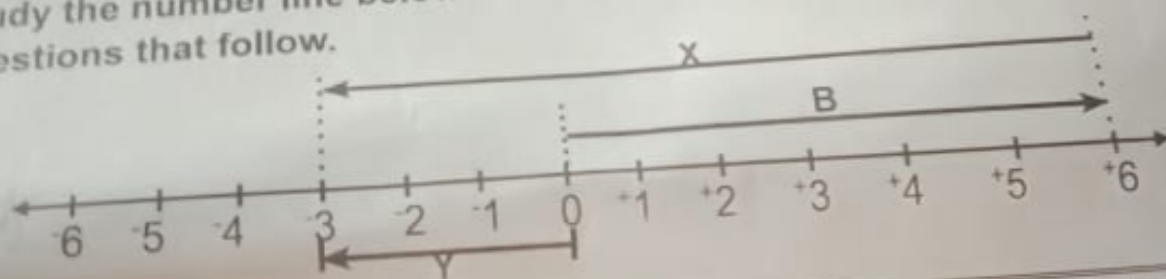| 31	A mother shared **sh 120,000** among her daughters, Shamim, Sharon and Shifah in a ratio of **2:3:5** respectively.		
a)	How much did each of them get?		
	(i) Shamim	(ii) Sharon	(iii) Shifah
			(03 marks)
b)	How much **more** money did Shifah get than Shamim?		
			(02 marks)

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

a)	Write down the integers represented by the following arrows:	b)	Write the **mathematical statement** for the above number line.
	i) B = _____		
	ii) X = _____		
	iii) Y = _____		
			(02mar
	(03marks)		