SECTION A: 40 MARKS

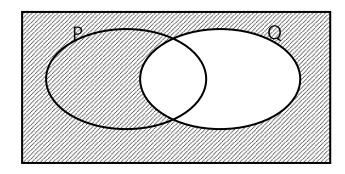
Answer all questions in this section. Questions 1 to 20 carry two marks each.

- 1. Work out: 25 + 52
- 2. Write in numerals: "Forty thousand, forty".

3. Simplify: 3a - 5a + 6a

4. Work out: $\frac{3}{4} \div \frac{1}{8}$

5. In the Venn diagram below, describe the shaded part.



6. Calculate the complement of 66°.

7	Chian	that a	2 000 1	- E	الماء	بر مط	، میباد	of o2	٥h
/.	Given	that a =	2 and I	0 = 5.	Find 1	tne va	aiue (or a∸	ab.

10. Using a ruler, a pencil and a protractor only, draw an angle of 110°.

11. Work out: 3 - 4 =____(finite 5)

12. Express $\frac{3}{5}$ as a percentage.

13. Change 13_{ten} into a binary base.

14. Write the number that has been expanded to give; $(4 \times 10^4) + (2 \times 10^2) + (3 \times 10^0)$

15. Arrange 2, -1, 3, 0, -4 and -3 in ascending order.

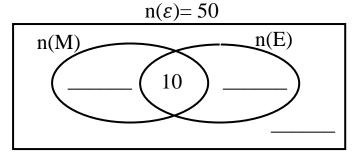
16. Solve: 3p - 12 = 6

17. The cost of 4 exercise books is sh. 3,600. Find the cost of six similar exercise books.
18.Express 2.5 km as metres.
19.In order to complete the work in 40 days, a contractor needed 250 workers. If 50 workers failed to turn up, how many more days did the workers take to
complete the work?
20. Given that P = {0, 2, 3, 5}. Find the number of subsets that can be formed from set P.

SECTION B: (60 MARKS)

- 21.In a class of 50 pupils, 30 like Mathematics (M), 25 like English (E), 10 pupils like both subjects while h pupils do not like any of the two subjects.
- a) Complete the Venn diagram below.

(3marks)



b) Find the value of h.

(2marks)

c) How many pupils like only one drink?

(1mark)

- 22.A man deposited sh. 600,000 in the bank that offers an interest rate of 15% per annum for $1\frac{1}{2}$ years.
 - a) Calculate his simple interest.

(2 marks)

b) How much money is in the man's account at the end of the period? (2 marks)

23. The sum of 3 consecutive counting numbers is 93. Find	the numbers. (4 marks)
24.a) Using a ruler and a pair of compasses only, construct which line PQ = PR = 6cm and angle QPR = 90°.	a triangle PQR in (4marks)
b). Measure the line QR.	(1mark)
	, ,

25. The table below shows the marks scored by pupils in a mathematics test.

Marks scored	80	70	90	60
Number of pupils	2	3	1	4

	a)	How	many	pupils	sat f	or the	test?
--	----	-----	------	--------	-------	--------	-------

(2marks)

b) Find the mode.

(1mark)

c) Calculate the mean mark?

(3marks)

26. Telephone poles are placed 30 metres apart beside a straight stretch of	:
the road. Kakuru was driving along the same road, he passed 121 poles	in
2 minutes. What was his speed in kilometres per hour? (3 marks)	

27. Mutoni went to the market and bought the items as shown on the table below.

Item	Quantity Unit price			Total cost
Sugar	2 kg Sh. 3,500 per kg		Sh	
Meat	kg Sh. 8,000 per kg		Sh. 24,000	
Milk	2½ litres Sh. 1,200 each litre			Sh
Bread	4 loaves	aves Sh @ loaf		Sh. 8,000
	Total expenditure			Sh

Complete the table above.

(5 marks)

a) If she went with sh. 50,000, find her change.

(1 mark)

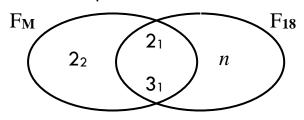
28.a) Work out:
$$\frac{0.24 \times 1.5}{0.8 \times 0.5}$$

(3 marks)

b) Simplify:
$$\frac{1}{4} - \frac{1}{2} + \frac{1}{3}$$

(2 marks)

29. The Venn diagram below represents the prime factors of two numbers. Use it to answer the questions that follow.



a) Find the value of M.

(2marks)

b) Calculate the value of n.

(2marks)

c) Work out the GCF of M and 18.

(2marks)

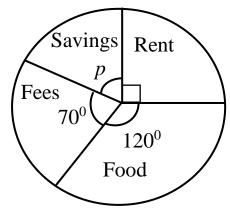
b) Olupot is twice as old as his brother Jamwa. If their total age is 18 years, how old is Jamwa? (2 marks)

- 31. John, Fatuma and Daniel shared a certain amount of money in the ratio of 2: 5: 3 respectively. If Daniel got sh. 60,000;
 - a) How much money did they share altogether?

(4 marks)

b) How much more money did Fatuma get than John? (1 marks)

32. The pie-chart below shows Muzorewa's monthly expenditure of sh. 720,000. Use it to answer the questions that follow.



a) Find the value of p in degrees.

(3 marks)

b) How much more money does he spend on food than on rent? (3 marks)

END