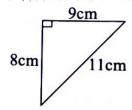
## **SECTION A: 40 MARKS**

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

1. Divide: 21 by 3

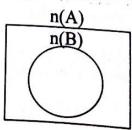
- 2. Write "Forty nine" in Roman numerals.
- 3. Given that:  $F_M = \{2_1, 2_2, 3_1\}$  Find the Lowest Common Multiple (LCM) of M and P.
- The temperature of a town for five weeks was recorded as below; 22°, 25°C, 30°C, 25°C and 38°C Work out the weekly average temperature.
- 5. Simplify: 13 hens 10 hens + a hen. 6. Calculate the area of the triangle below.



- 7. Work out: 102<sub>five</sub> + 442<sub>five</sub>
- 8. John had 2 sackets of salt weighing 500gms each. Express the mass of salt in kilograms.

9. A local TV show started at 9:15a.m and 10. ended at 10:00a.m. How long was the local TV show?

In the Venn diagram below, shade n(AUB).



## **SECTION B: 60 MARKS**

Answer all questions in this section.

Marks for each question are indicated in the brackets.

21. Complete Joan's shopping bill table below correctly.

(5 marks)

S/No	ITEM	QUANTITY	UNIT COST	AMOUNT
(i)	Pens	1 dozen	Shs. 800 per pen	Shs.
(ii)	Books	2 dozens	Shs. a book	Shs. 36,000
(iii)	Soap	bars	Shs. 3000@ bar	Shs. 15,000
(iv)		Shs		

22.

(a)

Arrange  $\frac{1}{2}$ ,  $\frac{1}{5}$  and  $\frac{1}{3}$  in ascending order.

(2 marks)

(b) In a class there are 160 pupils.

(i) If  $\frac{1}{4}$  of them are girls, find the fraction

3 9

(ii) How many boys are in the class? (2 marks)

4 of boys

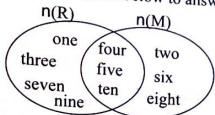
(2 marks)

Complete the 3 by 3 puzzle below to find the values of a, b, c, d, and e.

	3 magic
d	c
3 e	4
10	5

(6 marks)

Use the Venn diagram below to answer the questions that follow. 24.



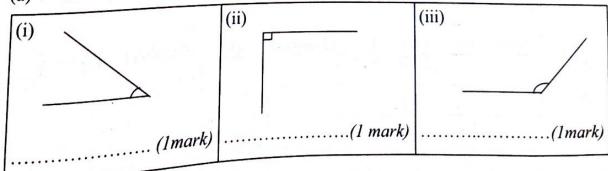
- (a) Find:
- (i) n(R)
- (1 mark)
- (ii) n(RUM)

(1 mark)

- List down members of; (b)
- (i) Set M =
- (1 mark)
- (ii) RnM

(1 mark)

Name the type of angles drawn below. 25. (a)



Work out the size of angle marked k in degrees.

(2 marks)

(b)



- 26. A teacher left home at 7:15a.m and took  $1\frac{1}{2}$  hours travelling at a speed of 80km/hr to arrive school.
  - a) At what time did she arrive school?
    (2 marks)

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(b) What distance did she cover from home to school? (2 marks)

27. A family uses 5 litres of milk everyday.

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(a) Express the number of litres used in millilitres.

(2 marks)

(b) If a litre of milk costs Shs. 1500, how much does the family spend on milk for a week? (2 marks)

28. (a) Work out:  $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$  (2 marks) (b) Simplify:  $1\frac{1}{4} - \frac{2}{3}$  (2 marks)

29. (a)

Solve for

\* 1900

+9 = 13

(2 marks)

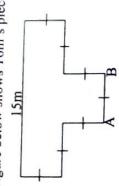
e and all one of the

the the

(b) Sarah has three times as many books as Joan. If they both have 40 books, find Joan's books. (2 marks)

30. Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon of radius 4cm. (5 marks)

31. The figure below shows Tom's piece of land.



(b) Work out the distance round the piece of land. (2 marks)

Calculate the area covered by Tom's land. (3 marks)

(c)

(a) Find the length AB in metres.

- The table below shows the temperature of a town recorded at a 2-hour interval for a day. 32.

Time	9:00am	11:00am	1:00pm	3:00pm	5:00pm	7:00pm
Temperature	20°C	30°C	25°C	15°C	30°C	20°C

Draw a line temperature graph for the recorded information above.



