SECTION A (20 QUESTIONS – 40 MARKS)

|	
1. Take away : 9 8 　　　　　 - 7 7 　　　　 ‗‗‗‗‗	2. Simplify: 2k + 3p – k - p
3. Given that a = $\frac{2}{3}$ and b = $\frac{1}{4}$. Find the value of a – b.	4. Use a pair of compasses to construct an angle of 120^0.
5. Nambi goes to rest at the time shown on the clock face below for 2 hours. Draw a clock face showing the time she wakes up. 	6. Joan read XLIX pages of a book. How many pages in Hindu Arabic numerals did she read?
7. The sum of two consecutive numbers is 9. Find the larger number.	8. A Half kilogram of Rice costs sh.2000. What will be the cost of 2kg of similar Rice?

9. Convert $33\frac{1}{3}$ to an improper fraction.

10. Find the sum of 110_{two} and 101_{two}.

11. Given that [book image] represents 10 books and [book image] represents 5 books. Draw pictures to represent 85 books.

12. R = { factors of 3}. List down all the subsets of **R**.

13. In the triangle below, find the value of p.
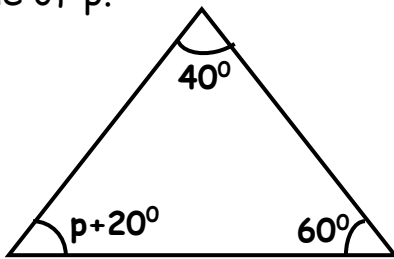
14. Measure the line segment below and fill in the length of PQ correctly.
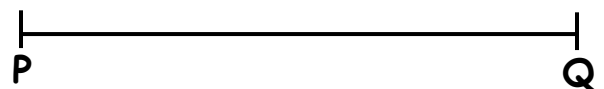
PQ = _____ mm

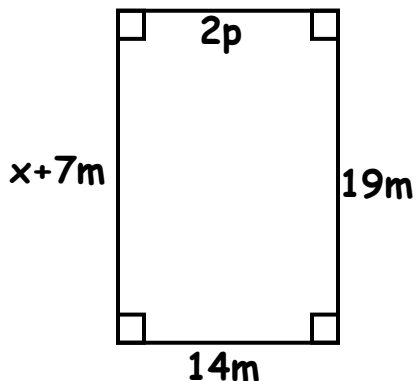15. Express 1342 hours in twelve clock system.

16. Write the number that has been expanded .
20000 + 600 + 7

17. Ndahura's birthday will be celebrated next week. What is the probability that the day will be starting with letter "T"?	18. A motorist covers a certain journey at 60km/hr for 3 hours 30 minutes. Calculate the distance covered by the motorist.
19. Work out: $(\frac{1}{4}$ of $\frac{1}{3}) \div \frac{1}{12}$	20. Draw a kite and indicate the line of symmetry.

SECTION B (12 QUESTIONS – 60 MARKS)

21. Ketra scored the following marks in a weekly test.	
	(1 mark)

Subject	Eng	Math	Scie	SST	R.E
Marks	75	100	75	80	90

(a) Calculate the range of her scores.	
(b) Find the modal mark.	**(1 mark)**

(c) Calculate the average score <u>above</u> her modal mark?.	**(3 marks)**
22. a) Write the place value of 3 in 230_{five}.	**(1 mark)**
(b) Write in words 122_{three}.	**(2 marks)**
(c) Find the value of K. $21_k = 13_{ten}$	**(2 marks)**
23. In a school of 2400 pupils, $\frac{3}{8}$ of them are boys and the rest are girls. (a) Find the fraction that represents girls.	**(2 marks)**

(b) How many boys are in the school? **(1 mark)**

(c) If $\frac{3}{5}$ of the girls are in upper school, how many girls are in lower school? **(2 marks)**

24. ABCD below is a rectangle. Use it to answer questions that follow.

2p

x+7m

19m

14m

(a) Find the value of ;
(i) x   (ii) p **(2 marks)**

(b) Calculate the area of the rectangle. **(2 marks)**

(c) Find twice the perimeter of the above rectangle.	**(1 mark)**
25. Find the next number in the sequence. (a) 110 , 130 , 150 , 170 , _____ .	**(1 mark)**
(b) Calculate the square root of 196.	**(2 marks)**
(c) Work out the least common multiple of : 30 and 40.	**(2 marks)**
26. (a) Using a pair of compasses, a ruler and a sharp pencil, construct a triangle ABC such that BC – 8cm, AB – 6cm and angle ABC = 90^0.	**(3 marks)**

(b) Measure ;

(i)   line AC.   (ii) $\angle$BCA   **(2 marks)**

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27. Complete the shopping bell.   **(5 marks)**

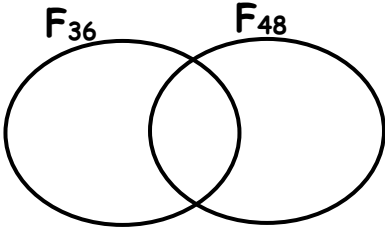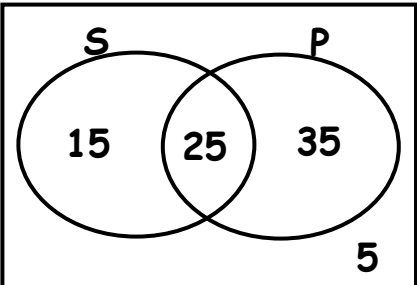| Item	Quantity	Unit cost	Amount
Books	$1\frac{1}{2}$ dozen	Shs.4,000	Shs. _____
Pens	_____ dozen	Shs. 9,000	Shs. 18,000
Toothpaste	3 tubes	Shs._____	Shs. 7,500
Omo	$\frac{1}{2}$ kg	Shs.8,600	Shs. _____
		Total	Shs. _____

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28. Given the number 4098.   **(1 mark)**

   (a) Represent the number on a well drawn abacus.

(b) Round off the above number to the nearest tens. **(2 marks)**

(c) Find the sum of the place value of 4 and the value of 9 in the above number. **(2 marks)**

29. Work out correctly.

(2 marks)

a) Hours   minutes
    14   42
  + 12   28
_____

b) weeks   days
    8   3
  - 2   5
_____

(c) Express 96 minutes as hours and minutes. **(3 marks)**

30. (a) A half of a number is 24. Form an equation and find the number. **(3 marks)**

(b) What is $\frac{3}{8}$ of the same number?	**(2 marks)**
31. a) The LCM of two numbers is 24. Their GCF is 2. If one of the numbers is 8, find the second number.	**(2 marks)**
(b) Represent the Prime factors of 36 and 48 on the venn diagram. **F₃₆** **F₄₈**	**(3 marks)**
32. The Venn diagram shows the number of pupils who like swimming (S) and Physical Education (P) and other sports activities. Study it and answer the questions that follow. S P 15 25 35 5 (a) How many pupils like; (i) Swimming	 **(1 mark)**

(ii) Physical Education	**(1 mark)**
(b) How many pupils like other sports that have not been included here?	**(1 mark)**
(c) What is the probability of choosing a pupil who like sonly one game to be the group leader?	**(2 marks)**

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