TREASURE PREPARATORY SCHOOL

PRIMARY FIVE MATHEMATICS FOR MID TERM III 2022

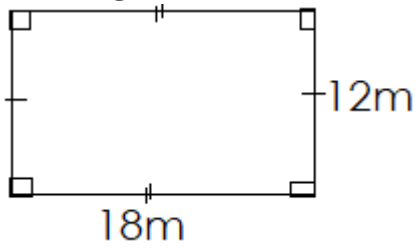
Time Allowed: 2 Hours and 30 Minutes.

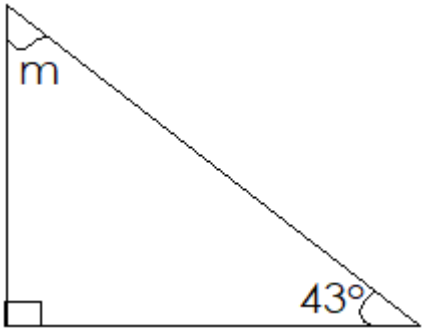
Group Name: _____

Group Leader: _____

SECTION A (40 Marks – 2 Marks Each)

1.	Workout: $^{-}3 - {}^{+}5$	2.	Write in words: 401,002
3.	How many subsets are in M = {1,2,3,4,5,6} ?	4.	Write down the next number in the sequence below: 78, 76, 73, 68, 61, _____
5.	Jack bought a geometry set at sh. 4,000 and sold it making a profit of sh. 1,000. Calculate the price at which he sold the set.	6.	Find the product of 127 and 13.

7.	What number has been expanded to give: $3\times10^3 + 2\times10^2 + 8\times10^0$?	8.	Workout the perimeter of the figure below; 
9.	Draw the symbol for null set.	10.	Given that ☆ represents 14 stars, how many stars are represented by: ☆☆☆
11.	Write the shaded fraction in its simplest form. 	12.	An English exam started at 8:23am and ended at 9:53am. How long did the exam take?

13.	Solve the equation: 3k + 8 = 32.	14.	Find the Highest Common Factor of 36 and 24.
15.	5 books cost sh. 4,500. Find the cost of a dozen of similar books.	16.	Change $5\frac{9}{13}$ into an improper fraction
17.	Covert 49 into base five.	18.	How many ½ litre packets can be got from a jerrican of 10 litres of cooking oil?
19.	Find the value of m in the diagram below;  	20.	Three years ago, Alice was five years old. How old will she be 6 years from now?

SECTION B (60 MARKS)

Marks for each question are indicated in brackets

21. In a school of 350 pupils, $\frac{9}{14}$ are boys. How many more boys are there than girls? ***(5 marks)***

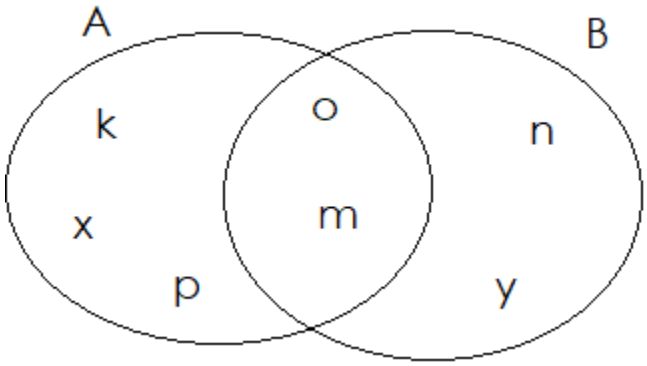
22. Keren went shopping with a note of fifty thousand shillings and bought the following items.

- 7 exercise books at sh. 1,500 per book.
- Half a dozen of pencils at sh. 400 per pencil.
- 5 sachets of cooking oil at sh. 3000 each sachet.
- 4 packets of crayons at sh. 10,000.

a) How much did she spend altogether? ***(4 Marks)***

b) Calculate his change. ***(1 mark)***

23. Study the venn diagram below and answer the questions that follow.



a) List all elements that are not in set B. ***(1 mark)***

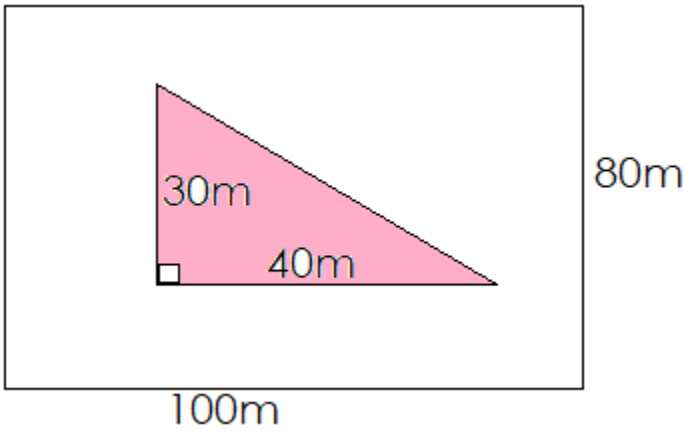
b) Find n(AUB) ***(2 marks)***

c) Find n(B∩A) ***(2 marks)***

24. a) Using a sharp pencil, ruler and a pair of compasses only, construct a regular hexagon in a circle of radius 2.7cm. ***(3 marks)***

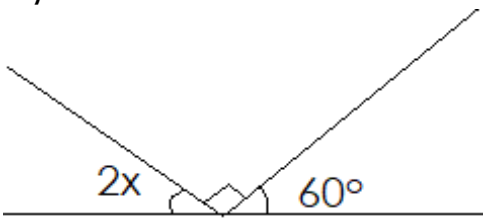
c) Find the perimeter of the hexagon above. ***(2 marks)***

25. A triangular garden was made in a rectangular farm as shown in the figure below. Work out the area of the farm that wasn't occupied by the garden. ***(5 marks)***

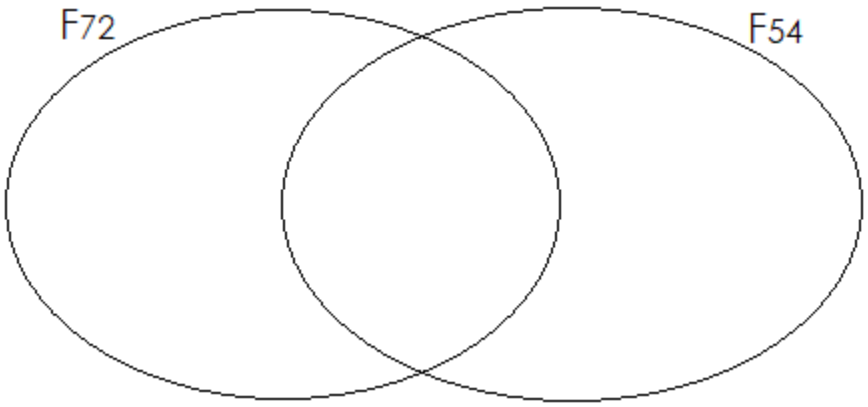


26. a) What is the bigger angle between East and South West? ***(2 marks)***

b) Find the value of x in the figure below. ***(3 marks)***



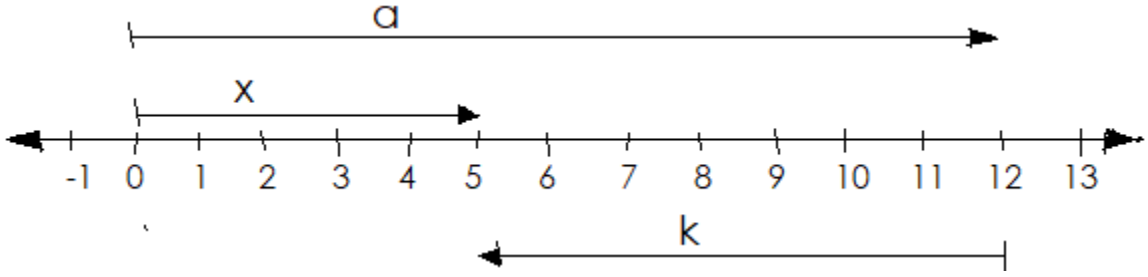
27. Prime factorize 72 and 54, Represent the prime factors on the venn diagram below. ***(3 marks)***



b) Find the LCM of 72 and 54. ***(1 mark)***

c) Find the HCF of 72 and 54. ***(1 mark)***

28. Study the number line below and use it to answer the following questions.



a) Name the integers marked with letters; ***(3 marks)***

a _____ x_____ k_____

b) Write down the subtraction mathematical statement represented on the number line. ***(2 marks)***

29. Given that a=2, b=3 and c=1, find the value of:

a) a + (b+c) ÷ a ***(3 marks)***

b) 2b + 3c ***(2 marks)***

30. a) Write down all digits used in base five. ***(1 mark)***

b) Convert 132_{five} to decimal base. ***(2 marks)***

c) Subtract 34_{five} from 423_{five}. ***(2 marks)***

31. The list below shows marks scored by 10 pupils in P5 class;
59, 84, 63, 76, 89, 84, 60, 78, 84 and 63

a) Find the average mark of the class. ***(2 marks)***

b) Find the modal mark ***(2 marks)***

c) What was the modal frequency? ***(1 mark)***

32. a) How many hours are in 3 days? ***(2 marks)***

b) A Mathematics seminar took $4\frac{3}{4}$ hours. How many minutes did the discussion take? ***(3 hours)***