HAPPY TIMES JUNIOR SCHOOL
PRIMARY SEVEN PRE MOCK SET FIVE
TERM II 2024
MATHEMATICS

DURATION: 2 HOURS 30 MINUTES

INDEX NUMBER									

Name:……

School:……..

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO. Read the following instructions carefully.

1. This paper is made up of two sections: **A** and **B**
2. Answers to both sections must be written in the spaces provided in full sentences.
3. Section **A** has **20** questions (40 marks)
4. Section **B** has **12** questions (60 marks)
5. **Attempt ALL questions**. All answers to **MUST** be written in the spaces provided
6. ALL answers must be written in blue or
7. Black ball point or ink. Only diagrams And work must be done in pencil
8. Unnecessary alternations of work will lead to loss of marks.
9. Any handwriting that cannot be easily Read may lead to loss of marks.

SECTION A

1. Add: 222 + 888

2. Write in figure: One hundred thousand Five.

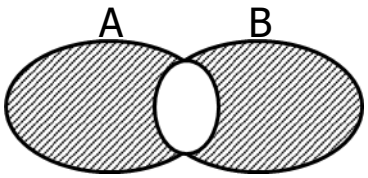
3. Find the LCM of 12 and 18

4. Divide: 1½ by $^{2}/_{3}$

5. Simplify -7 - -4

6. Collect like terms: 2a + 7b – 3b

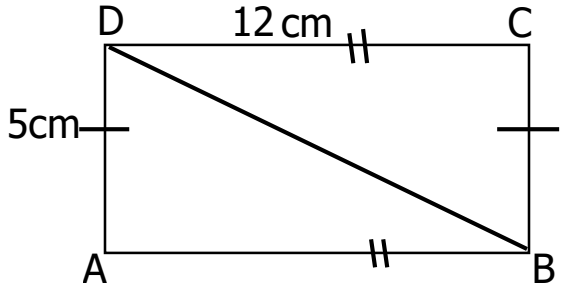
7. In the figure below describe the shaded part.



8. Round off 2.967 to the nearest thousandths.

9. What is the next number in the sequence?
   1, 4, 9, 16 _____

10. In the rectangle below find the length sequence of the diagonal DB.



11. A trader borrowed sh. 150.000 from the bank which offers an interest rate of 5% per month for 4 month. How much did he pay back at the end of the period?

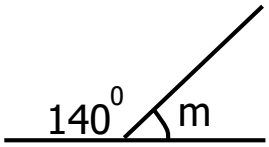
12. Solve for M: $2m + 1 = 5$

13. Given that A = { a, b, c, d }. How many subsets are in set A?

14. Angle x and X + 20 are complementary angles. Find the value of X in degrees.

15. Workout: 0.4 x 0.2

16. Find the size of angle M.



17. Add: $4\ 3\ 2_{\text{five}}$
$+\ 3\ 4\ 1_{\text{five}}$

18. Write 17 in Roman numeral.

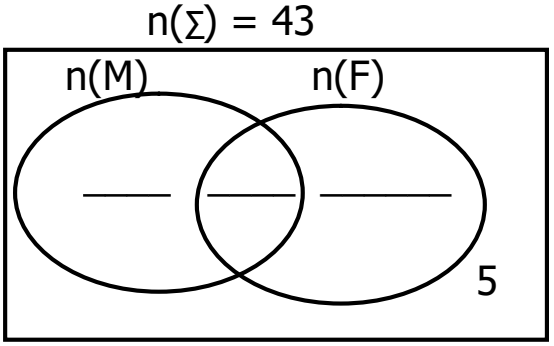
19. What number has been expanded to give;$(7x10^3) + (6x10^2) + (9x10^1) + (8x^0)$?

20. Express 72km/hr to m/s

SECTION B

21. In class of 43 members, 23 members like meat(M), 8 members like both meat and fish, P members like fish(F) only while 5 members like neither of the two

a) Complete the Venn diagram below



(3 mks)

b) How many members like fish only? (2 mks)

22. Mr. kasada spends $^{2}/_{5}$ of his salary on school fees. $^{1}/_{3}$ of the remainder on rent and saves sh.3000.

a) How much does Mr. kasada earn as salary? (5mks)

23. Convert 202_{four} to base ten.(2 mks)

b) If $30_y = 1111_{two}$ find the value of y. (3mks)

24. Express 20% as a fraction. (2 mks)

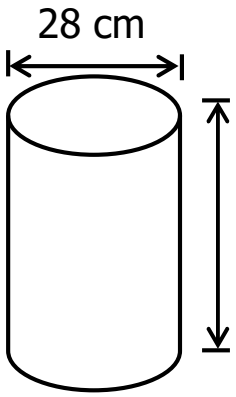
b) By selling a shirt at sh.23,000, Musa realized a profit of sh.1500. How much did Musa buy the shirt? (2mks)

25. Expand 36013 using values (2 mks)

b) Arrange the following decimals in ascending order: 0.21, 0.221, 0.392. 0.395 (2 mks)

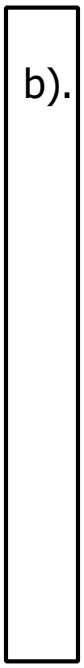
26. Find the volume of the figures below

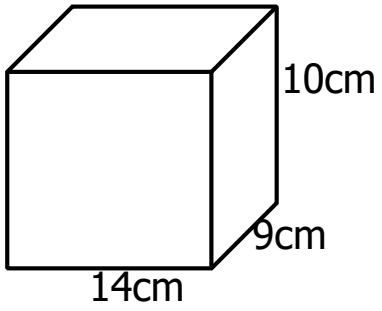
a).



(3mks)

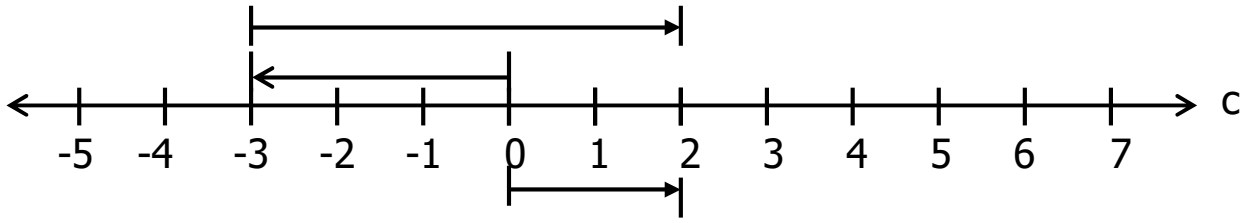
b).





(3mks)

27. Study the number line below and Use it answer the questions that follow b a



a) Write the integers of; (3mks)

a = _____

b = _____

c = _____

b) Write the mathematical statement for the number line above (2mks)

28. Workout: $3\ 4\ 2_{five}$

$+\ 2\ 3\ 1_{five}$

(2 mks)

b) Change the following to base ten

i). 24_{five} (2 mks)

ii). 13_{two} (2 mks)

29. Construct a regular hexagon of radius 4cm in the space below (3mks)

b) Find its perimeter. (1 mk)

30. Study the table below and use it answer the question that follow

Marks	50%	60%	70%	40%	90%	80%
Pupils	4	6	3	1	2	4

a) Find the range of marks (2 mks)

b) How many pupils scored above 70%? (2 mks)

c) How many pupils were in class? (1 mk)

31. Workout: $\frac{0.2 \times 0.4}{0.8}$ (3 mks)

b) Add 0.71 + 0.741 (2 mks)

32. Solve the follow equations

a) $2m + 4 = 16$ (2 mks)

b) $2(m + 1) = 4$ (3 mks)

The End