

MOTHERCARE PREPARATORY SCHOOLS

END OF FIRST MONTH ASSESSMENT 2021

PRIMARY SEVEN MATHEMATICS

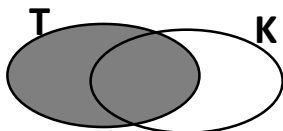
NAME:..... BRANCH:.....

SECTION A (40 MARKS)

1. Add: $3982 + 4017$

2. Write 195 in Roman numerals.

3. Describe the unshaded part of the Venn diagram below.




4. Given that $2n$ and $3n$ are complementary angles, find the value of n .

5. Workout: $\frac{2}{3} \div \frac{1}{4}$

6. In a line of girls, Sarah is the seventh from either side. How many girls are they?

7. A box weighs $\frac{3}{4}$ kg. Find its weight in grammes.

8. Ann left home at 11:45am and reached town at 1:20pm. How long did she take on the way?

9. Given that  represents 12 tins, draw pictures for 48 tins.

10. Evaluate: $1 - 5 = y$ (finite 11)

11. A country's Covid-19 cases is 793,046. Write the number in words.

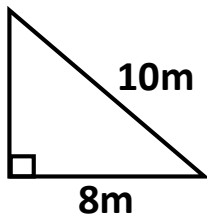
12. Shamira bought 15 mangoes at shs.4500. How much does she have to sell each mango in order to get a profit of shs.2250?

13. Find the next number in the sequence:

2, 3, 5, 7, _____

14. The cost of petrol increased from shs.3800 in the ratio 6:5. Find the new price.

15. Calculate the height of the figure below.



16. Simplify: $9 + 99^0$

17. Add: $1011_{two} + 111_{two}$

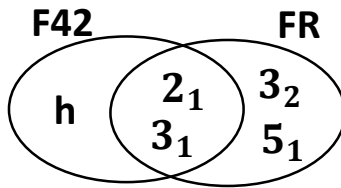
18. Set W has 63 proper subsets. Find $n(W)$

19. Solve: $3h - 5 = h + 7$

20. Convert 72km/hr to m/sec

SECTION B(60 MARKS)

21. The Venn diagram below shows the prime factorization of two numbers. Use it to answer the given questions.



(a) Find the value of h (2mrks)

(b) What is the GCF of 42 and R? (2mrks)

(c) Workout the LCM of 42 and R. (2mrks)

22. (a) Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle KLM where $KL = 7.5\text{cm}$, $\angle KLM = 60^\circ$ and $LM = 5\text{cm}$. (5mrks)

(b) Measure the length of KM.

23. Below are items bought by Shalom. Study the list and answer the questions given.

3kg of sugar shs.3200 per kg

$1\frac{1}{4}$ kg of rice at shs.6000 every kg

$2\frac{1}{2}$ litres of milk at shs.2800 a litre

2kg of peas at shs.8400

750gm of margarine at shs.8000 @kg.

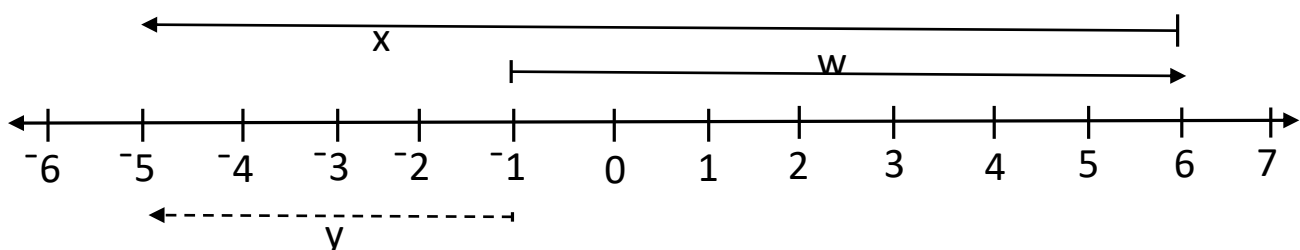
(a) Find her total expenditure.

(5mrks)

(b) If she was given a change of shs.11,500, how much money did she have at first?

(1mrk)

24. Study the ray diagram below and answer the questions given.



(a) Identify the integer represented by each of the rays

(I) $y =$

(II) $w =$

(III) $x =$

(3mrks)

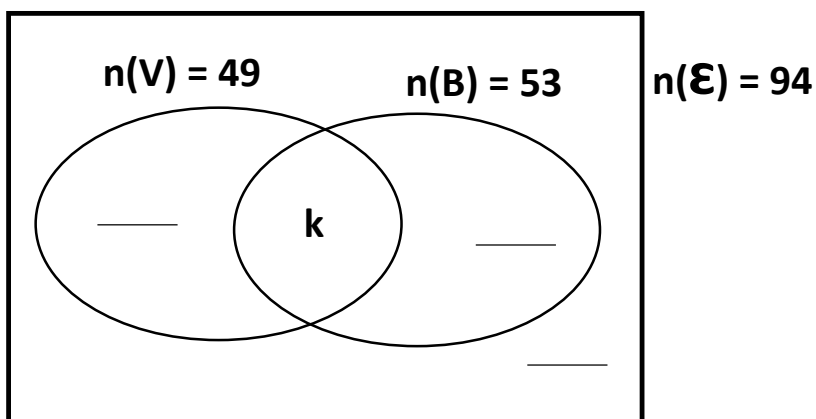
(b) Write the Mathematical statement shown on the ray diagram.

(1mrk)

25. In a group of 94 members, every member likes football(F), 49 members like both football and volleyball(V), 53 members like both football and basketball(B), k members like all the three activities while 4 members like football only.

(a) Represent the information on the Venn diagram.

(3mrks)



(b) Find the value of k

(2mrks)

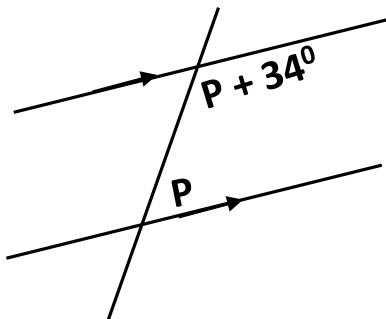
(c) Find the probability of choosing a member at random who likes two activities only to lead the group. (2mrks)

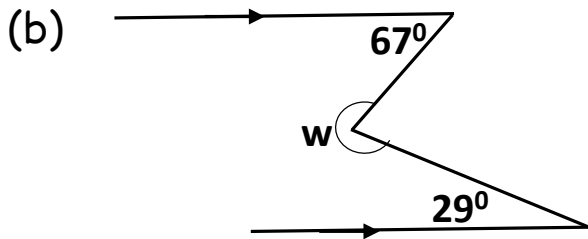
26. (a) Simplify: $\frac{2.4 \times 0.18}{0.09 \times 0.06}$ (3mrks)

(b) Change 0.08 as a common fraction in its simplest form. (2mrks)

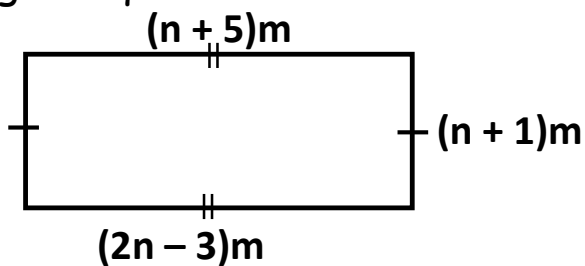
27. Find the values of the unknown in the diagrams below. (4mrks)

(a)





28. PQRS below is a rectangle. Study it carefully and answer the given questions.



(a) Find the value of n . (2mrks)

(b) Calculate the area of the figure. (2mrks)

29. The sum of four consecutive odd numbers is 88. List down all the numbers. (4mrks)

30. Joan deposited shs.680,000 in her fixed account in a bank which offers an interest rate of 9% per annum. She kept the money in the bank for a period of $2\frac{1}{3}$ years.

(a) Calculate the interest she earned after that period. (3mrks)

(b) What was her account balance at the end of the agreed period? (2mrks)

31. The table below shows the marks scored by P.7 pupils in a Mathematics examination. Use it to answer the questions.

Number of pupils	3	2	3	5	1	2	4
Marks scored	50	75	90	80	100	95	65

(a) How many pupils did the test? (1mrk)

(b) Find the modal score. (1mrk)

(c) How many pupils scored below the average mark? (3mrks)

32. (a) Workout: $143_{six} \div 13_{six}$ (3mrks)

(b) Given that $104_p = 311_{four}$, find the value of p. (3mrks)

END