



MULAGO

CREAMHILL SCHOOLS

MULAGO

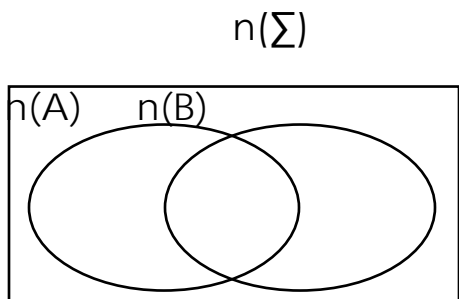
P.6

MATHEMATICS

SECTION A (40MARKS)

1. Work out: $24 + 75$

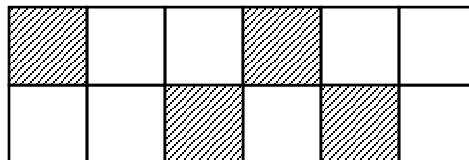
2. Shade $n(A)^c$ on the venn diagram below.



3. Write 2147 in words.

4. Simplify: $2p + 3p - p$

5. Write the shaded fraction on the diagram below in its lowest form.



6. Convert 212_{three} to base ten.

7. Change 4800g to kg.

8. Work out $^{-}2 + ^{-}3$

9. Simplify: $\frac{1}{4} + \frac{1}{5} + \frac{1}{5}$

10. Express 2494 in scientific notation.

11. John drove his car for 120km from Kampala to Masaka in 3 hours, what was his average speed?

12. Find the next number in the sequence below;

16 , 9 , 4 , 1 , _____

13. Given that  represents 20 balls. How many balls are represented by     ?

14. Use a pair of compasses, a ruler and a pencil only to construct an angle of 60° .

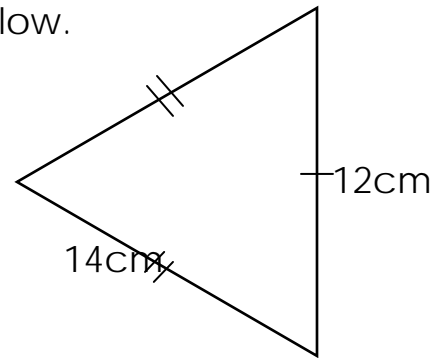
15. Write down the prime factors of 36 in subscript form.

16. A mathematics test ended at 10:30 a.m. It lasted for $2\frac{1}{2}$ hours. At what time did it start?

17. Solve $2y + 4 = 22$

18. Subtract 424_{five}
 - 112_{five}

19. Find the perimeter of the figure below.



20. Write 249.68 in expanded form using exponents.

SECTION B (60 MARKS)

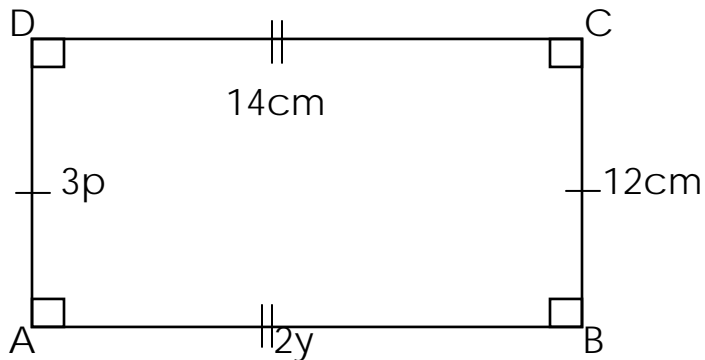
21. In a class of 140 pupils, $\frac{3}{7}$ of them are girls and rest are boys.

a) What is the fraction of boys in the class?(2 marks)

b) How many girls are in the class?(2 marks)

c) How many more boys than girls are in the class?(2 marks)

22. Study the figure below and use it to answer the following questions.



a) Find the value of;

i) p



ii) Y

(1mark each)

b) Find the area of the figure ABCD above. **(2 marks)**

23. Thomas used digits 2 , 4 and 8 to form 3 – digit numbers.

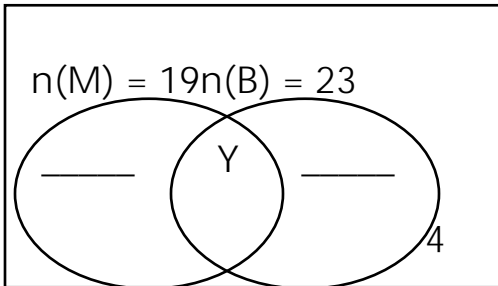
a) Write down the largest and the smallest 3 – digit numbers that were formed using the above digits. **(2 marks)**

b) Round off the smallest number formed above to the nearest hundred.
(2 marks)

c) Express MMXLVIII in Hindu Arabic form. **(1 mark)**

24. In a farmers club of 36 farmers, 19 grow maize (m), 23 of them grow beans (B). Y farmers grow both maize and beans while 4 farmers don't grow any of the above crops.

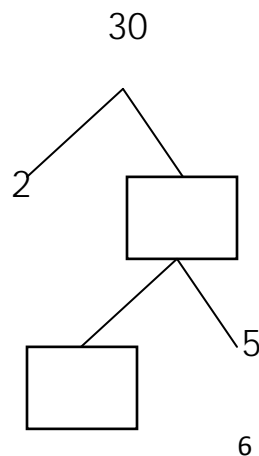
a) Use the above information to complete the Venn diagram. **(2 marks)**



b) How many farmers grow both maize and beans? **(2 marks)**

c) What is the probability of picking a farmer at random who grows only one type of crop? **(2 marks)**

25.a) Complete the diagram below. **(2 marks)**



b) Given that $F_{36} = \{2_1, 2_2, 3_1, P\}$. Find the value of P. **(2 marks)**

26. Mark bought the following items from a supermarket.

2 kg of sugar at sh. 4000 per kg

$2\frac{1}{2}$ kg of rice at sh. 3000 per kg

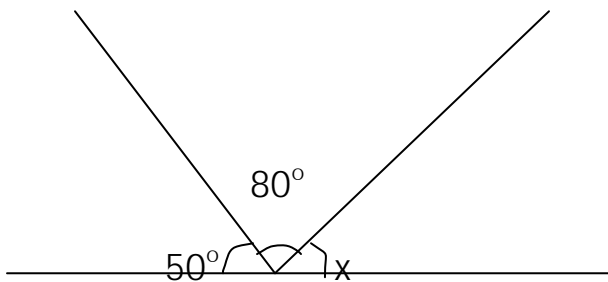
3 bars of soap at sh. 12000

a) What was his total expenditure? **(4 marks)**

b) If he remained with sh. 2500. How much did he have at first? **(2 marks)**

27.a) What is the complement of 28° ?(2 marks)

b) Find the value of x on the figure below.(2 marks)



28. Given that $a = 3$, $b = 4$ and $c = 5$. Find the value of; **(2 marks each)**

i) $b + ca$

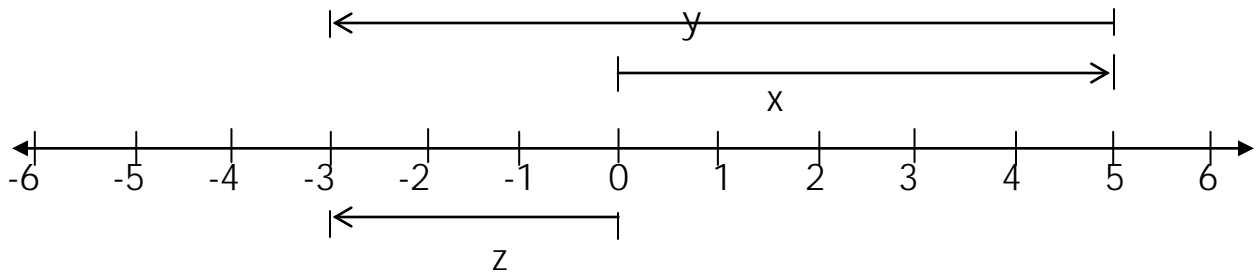
ii) $a + c$

iii) $2b - c$

b

29. Using a pair of compasses, a ruler and a pencil only. Construct a rectangle PQRS such that Length $PQ = 6\text{cm}$ and width $QR = 5\text{cm}$. **(4 marks)**

30. Study the numberline below and use it to answer the following questions



a) Identify the integers represented by the arrows on the numberline above. **(3 marks)**

i) $x =$ _____ ii) $y =$ _____ iii) $z =$ _____

b) Write down the mathematical statement shown on the numberline above. **(2 marks)**

31. A passenger train that travels from Tororo to Kampala charges adults sh. 12000 and children sh. 6000.

a) Tom and his wife with 2 children travelled from Tororo to Kampala by train. How much money did they pay altogether? **(3 marks)**

b) If Tom had sh. 60000 when starting the journey. How much money did he remain with after paying the fare for the whole family?(2marks)

32. A group of P.6 pupils scored marks in a mathematics tests as shown on the table below.

Derrick	John	Sam	Amos	Sarah
50	60	70	80	90

Represent the marks shown above on the bar graph.

(5 marks)

