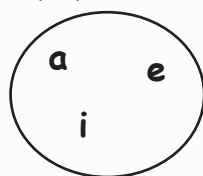




1. Work out:  $20 + 31$
2. Change  $4m^2$  to  $cm^2$
3. Find the sum of the next two numbers in the sequence.  
1, 4, 9, 16, \_\_\_\_\_, \_\_\_\_\_
4. List all the proper subsets in set A.



5. After covering 25 of the journey, Kylie still had 60km to cover. How long was the whole journey?
6. Round off 39.63 to the nearest tenths.
7. A dozen of books costs sh. 72000. What is the cost of 1 gross of such books?
8. Subtract:  $3 - 4 =$  \_\_\_\_\_ (fin 7)



Mr. Josephat Karubanga  
Kabojja Junior School



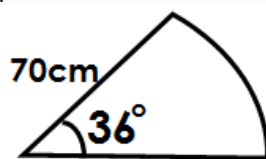
Mr. Bernard Mbyehuzya  
Kampala Parents Sch



Mr. Michael Musinguzi  
Budo Junior School

## SECTION A

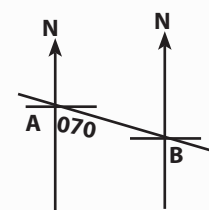
9. What angle is 25% of its supplement?
10. Find the curve length of the figure below.



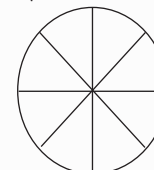
11. Decrease sh. 2000 by 10%.
12. The volume of a cube is  $216cm^3$ . Find the length of each side.

## MATHEMATICS

16. Work out:  $\frac{3}{4} \div \frac{9}{16}$
17. Find the direction of town A from town B in the diagram below.

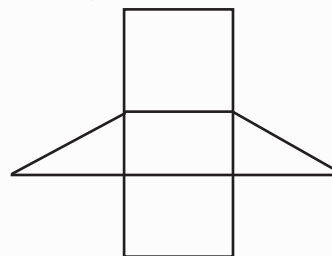


18. Shade  $\frac{1}{4}$  of the figure below.



19. Write CMLXIV in Hindu Arabic numerals.
20. Find the cost of sending the telegram of 40 words if the first 30 words cost sh. 2000 and each additional word cost sh. 200.

13. Factorise completely:  $4x^2y - 8xy^2$
14. Name the solid figure formed from the net below.



15. Find the GCF of 18 and 24.

## SECTION B

21. Solve:  $103_y = 28_{ten}$
22. A trader bought 60 eggs at sh. 30,000. During transportation, some eggs got broken. He sold the remaining eggs at sh. 750 each, making a profit of sh. 1500.
23. a) Without dividing, prove that 3012 is divisible by 3.  
b) List down all composite numbers between 10 and 20.  
c) Write 0.00492 in scientific notation.
24. a) 2016 was a leap year. Write the number of days in its months of January and February in words.

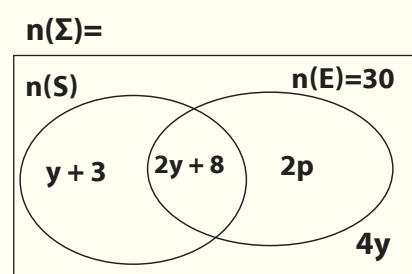
b) i) Subtract:

Hrs	Min
4	15
-2	45
<hr/>	

ii) Add:

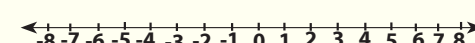
Weeks	Days
6	4
+3	5
<hr/>	

25. In a class, all of them like Music. Study the diagram below and use it to answer the questions below it.



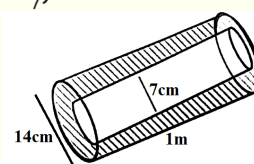
- a) If the number of pupils who like Music and Science is equal to the number of pupils who like Mathematics only, find the value of y.
- b) Find the value of P.
- c) How many pupils like only 2 subjects?

26. a) Show  $4x - 2$  on the numberline below.

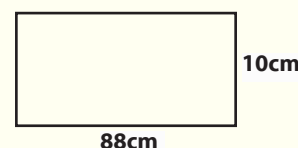


- b) Solve and write the solution set.  
 $3 - 2y > 9$

27. a) Calculate the volume of the concert used in the culvert below. (Use  $\pi = 3\frac{1}{7}$ )



- b) The rectangular sheet below was curved to form a cylinder. Calculate the radius of the cylinder formed.



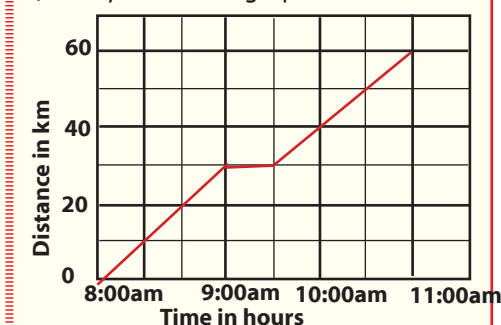
28. Babinga has 15 more cows than Milly. Altogether, they have 55 cows.
- a) How many cows has Milly?
- b) How many cows has Babinga?

29. A man spends of his salary on food, of the remainder on rent and saved sh. 100,000.
- a) Draw a pie chart using a radius of 3cm to show the above information.
- b) Find his total salary.

30. a) Construct a parallelogram ABCD where  $AB = 6cm$ ,  $BC = 3.5cm$  and angle A =  $120^\circ$ .
- b) Measure diagonal AC.

31. a) Solve for t:  $3^{2t} \times 1 = 81$
- b) Simplify:  $\frac{t^4 \times t^3}{t^5}$

32. a) Two dice are tossed once. What is the probability that the product on the two dice is:
- i) odd      ii) even      iii) 9
- b) Study the travel graph below.



- i) What is the vertical scale?
- ii) For how long did he rest?
- iii) Calculate the average speed for the whole journey.