SECTION A

1. Subtract:
$$\begin{array}{r} 4\,8\,5 \\ -\quad 4\,5 \\ \hline \\ \hline \end{array}$$

2. Write 40049 in words

3. Find the next number in the sequence:
1, 4, 9, 16, _____

4. Find the GCF of 12 and 18

5. Simplify: $\frac{2}{3} - \frac{1}{2}$

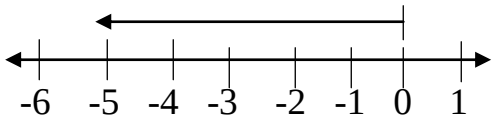
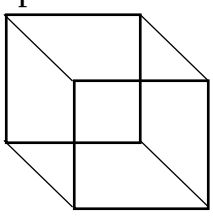
6. Solve: $2y - 6 = 14$

7. The cost of 12 pens is shs. 6000.
Find the cost of 5 similar pens.

8. Change 110_{two} to base ten.

9. Use a pair of compasses, ruler and a pencil to construct an angle of 60^0

10. How many half litre cups of milk can fill a 5 litre container of milk?

11.	Draw and show lines of folding symmetry of a semi-circle.	12.	What interger is shown on the number line below? m = _____ 
13.	Find the square root of 64	14.	Round off 23. 85 to the nearest whole number.
15.	Work out: 2 + 3 = _____ (finite 5)	16.	A cyclist rode 4 hours at a speed of 75km/hr. Find the distance be travelled.
17.	In a box, there are 6 red pens and 4 blue pens. What is the probability of teacher Ocen picking a red pen to mark pupils books?	18.	Calculate the volume of the solid shape below. 

19. Find the complement of an angle of 65^0?

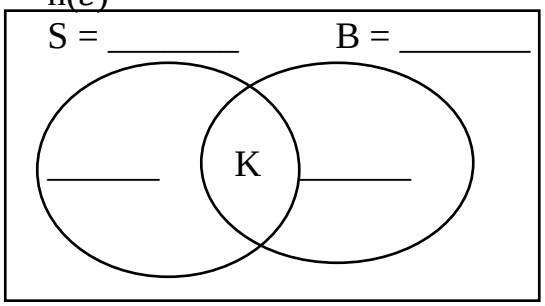
20. A maths test started at 8:45 a.m and ended at 11:15a.m. How long did it take?

SECTION B

21. In a group of 50 people, there are 35 people taking soda (S), 20 people take beer (B) and the rest take both.

a) Represent the information above on the Venn diagram below. (3 marks)

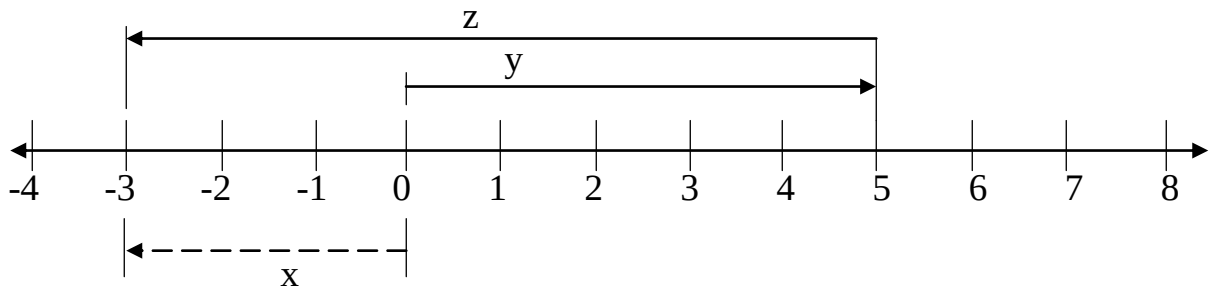
$n(\varepsilon)$ =



b) How many people take both drinks? (2 marks)

c) How many people take only one type of drinks? (1 mark)

22. Use the number line below to answer questions.



a) Write down the integers represented by letters. (1 mark each)

x = _____ y = _____ z = _____

b) Write the mathematical sentencet shown above. (2 marks)

23. a) The area of a rectangle is $32cm^2$. Its length is 8cm. Find its width. (3 marks)

b) Work out its perimeter. (2 marks)

24. Given the digits: 3, 2, 1 and 4 (1 mark each)

a) Use the digits above and form the smallest four digit numerals.

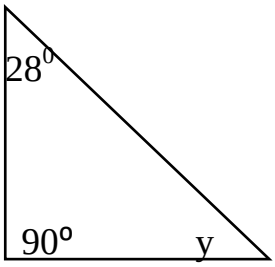
b) Write the place value of 2 in the largest 4 digit number using the above digits.

c) Expand the smallest four digit numeral in value form.

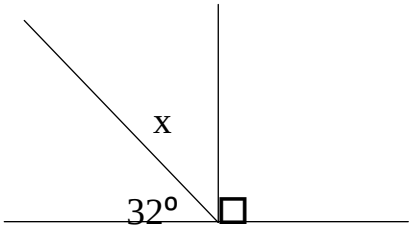
a) Find the sum of the smallest and the largest 4 digit numerals formed.

25. Find the size of the unknown angles. (2 marks each)

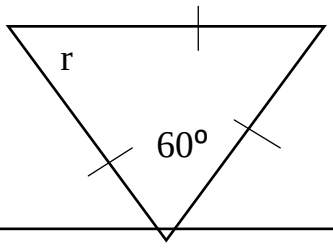
a)



b)



c)

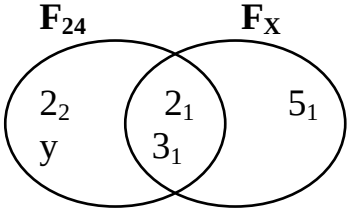


26. a) Change 123_{five} to base ten. (2 marks each)

b) Add: 203_{five}
$+ \ 13_{five}$

c) Solve for the unknown base: $22_x = 12_{ten}$

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



a) Find the value of;

(i) x (1 mark)

(ii) y (2 marks)

b) Find the GCF of F_{24} and F_X (1 marks)

c) Work out the LCM of F_{24} and F_X (2 marks)

28. The sum of the three consecutive even numbers is 24. Find the members.

29 If a = 10, b = 8 and c = $^{-}4$. Find; (2 marks each)

a) $ab + b^2$

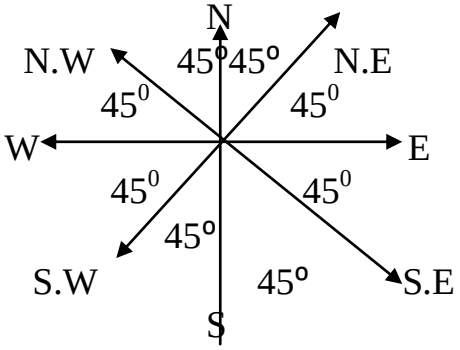
b) $b - c$

c) bc

30. a) Using a well sharpened pencil, a ruler and a pair of compasses only, construct a triangle in a circle whose radius is 4.5cm. (3 marks)

b) Work out the perimeter of the triangle constructed. (1 mark)

31. Use the compass below to answer questions that follow.



a) What is the largest angle between East and South West? (1 mark) 45^0

b) If a boy turns clockwise from West to North East, what angle will he make? (1 mark)

c) A girl was facing south. She turned 180^0 anticlockwise. In which direction did she face? (1 mark)

32. a) Find the least number which when divided by 3, 4 or 5leaves 3 as a remainder. (3 marks)

b) The GCF of two numbers is 6 and their LCM is 36, if the first number is 12, find the second number. (2 marks)