SURE KEY EXAMINATIONS BOARD

PRE – PRIMARY LEAVING EXAMINATION 2021
MATHEMATICS – SET 2
Time Allowed 2 Hours 30 Minutes

Index No.

Random Number						Personal No.		

Candidates' Name .....

Candidate's Signature.....

School Random No. .....

District ID: .....

Read the following instructions carefully:

1. This paper has two section A and B

2. Answer all questions and all answers to both Sections A and B must be written in the spaces provided.

3. All answers must be written in blue or black ink ball-point pen or fountain pen.

4. Unnecessary changes of work may lead to loss of marks.

5. **Any** handwriting that cannot easily be ready may lead to loss of marks.

6. **Do** not fill anything in the boxes indicated "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn.No.	**Marks**	**EXR'S NO.**
1-10		
11-20		
21-22		
23 - 24		
25 - 26		
27 - 28		
29 – 30		
31 – 32		
TOTAL		

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SECTION A :(40 marks)

1. Work out: 1 7
   + 3

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2. Write 5,024 in words.

3. If set P = {**m,i,k,e**} and Q = {**b,i,n,d**}. Find n(PuQ)

4. Add: $\frac{1}{4} + \frac{1}{5}$

5. 8 pens cost sh. 3200. Find the cost of 7 similar pens at the same rate.

6. Calculate the area of a square whose perimeter is 20cm.

7. The clock face shows 4:18pm. What is the time in a 24-hour clock system?

8. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30° in the shape below.

9. Express 0.272727… as a simplified common fraction.

10. What is the place value of 9 in the number 5967.4?

11. Work out using distributive property: (88 x6) + (12 x 6)

12. Shade B-A in the figure below.

13. If represents 14 girls, draw pictures to represent 56 girls.

14. Subtract

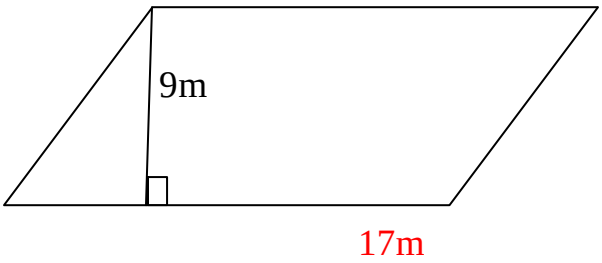
m	cm
8	40
– 4	70

15. Find the supplement of 98°

16. Calculate the simple interest on sh.120, 000 for a period of 8 months at an interest rate of 20% per annum.

17. Simplify: $\bar{3} - \bar{9}$

18. Calculate the area of the figure below.



19. Simplify: 2p – 4k + 5p + 7k.

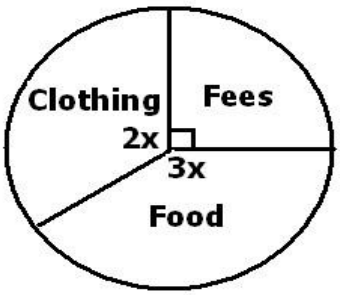
20. Using a pair of compasses, ruler and pencil only construct a semi circle of diameter 4 centimeters in the space provided below

SECTION B

21. Work out: $1\ ^{2}/_{5} \times 1\ ½ \div 3\ ½$ **(2marks)**

(b) Work out: $\dfrac{0.24 \times 0.9}{0.6 \times 0.3}$ (**3marks**)

22. The pie-chart below shows Kakembo's monthly expenditure.

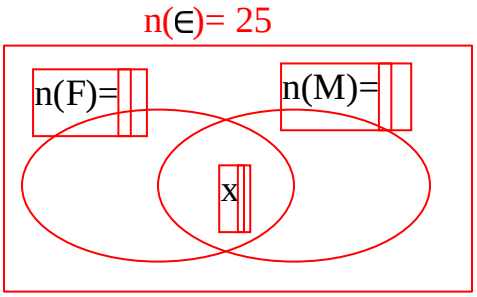


a) Find the value of x. (**3marks**)

b) If he spends sh.72, 000 on fees, find his total monthly expenditure.
(**2 marks**)

23. In a family of 25 people, 17 like eating fish (F), 18 like eating meat (M), some like eating both.

(a) Complete the Venn diagram given below. (**2marks**)



(b) How many members like both fish and meat? (**3marks**)

24. Ssalongo went to the supermarket and bought the following items:

2 ½ Kg. of millet at sh.2000 per Kg 500 gm of sugar at sh. 4000 per Kg.

2 Kg of meat at sh. 12,000

2 bars of soap at sh.2500 per bar

a)Calculate his total expenditure(**4marks**)

(b) If he had sh.6,000 as his balance, how much did he have at first? (**2marks**)

25 Solve for b; Solve for y: $2(2y - 3) = 14$ **(3marks)**

c) Kato is 11 years older than Annah now. In 4 years' time, Kato will be twice as old as Annah. How old is Annah now? (2marks)

26. Tom and Mary were to report to the sickbay at regular intervals of 30 minutes and 40 minutes respectively. Both of them were in the sickbay at 8:30 a.m.

(a) (a) After how many minutes will the two pupils be in the sickbay together for the second time? (3marks)

(b) At what time will they be together in the sickbay for the second time? (**2mark**s)

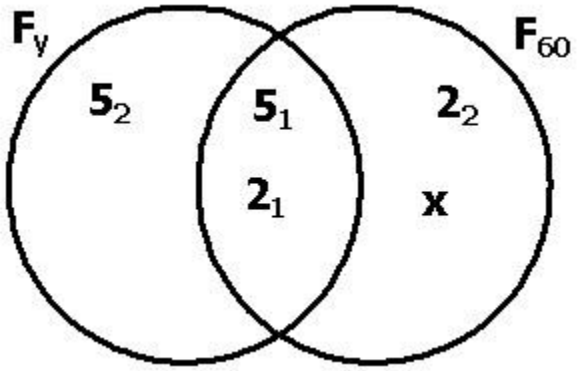
27. Using a ruler, a pencil and a pair of compasses only, construct a rhombus ABCD such that AB = 6cm, angle DAB =60°. (**4marks**)

(b) Measure the length of diagonal BD…….. (1mark)

28. The sum of three consecutive counting numbers is 33. Find the three numbers. (4marks)

(b) Calculate their range. (1mark)

29. Study the figure below and answer the questions that follow.



(a) Find the value of: y (**1mark**)

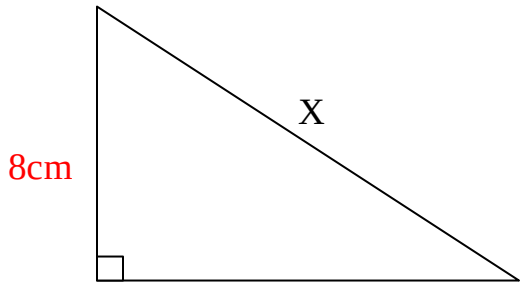
(ii) Find the value of: x (**2marks**)

b) Find the L.C.M of y and 60. (**2marks**)

30. a) Today is Thursday, what day of the week will it be after 30 days?.(3marks)

b)Work out: 2 – 4 = _____(finite 7). (**2marks**)

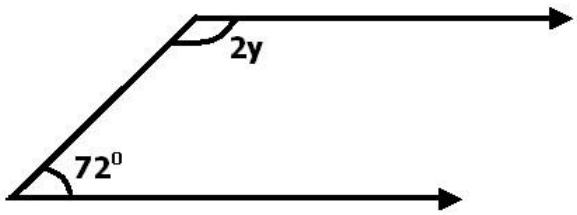
31. The figure below shows a right angled triangle.



a) Find the area of the triangle. (**2marks**)

b) Find the value of x . (**3marks**)

32. (a) Study the figure below and find the value of y. (**3marks**)



(b) The complement of $2x - 10^0$ is 50^0. Find the value of x. (**2marks**)