SURE KEY EXAMINATIONS BOARD

PRIMARY SEVEN PRE-REGISTRATION EXAMINATION

2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Registration No.						**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District Name:.....

Readthefollowing instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.

2. Thispaperhastwo sections: **A**and**B**. Section**A** has **20**questionsandSection**B** has**12**questions. The paperhas**16printed pages** altogether

3. Answer **all**questions. **All**theworking forboth sections**A**and**B**mustbeshowninthe spaces provided.

4. **All** workingmustbedone usinga**blue**or **black** ball point penorink. Anywork done inpencilother than graphs anddiagramswill **not**bemarked.

5. **Nocalculators**areallowed intheexamination room.

6. Unnecessary **changes**inyour work and handwriting that cannot easily be read may leadtoloss of marks.

7. Donotfillanything inthetable indicated: **"ForExaminers'Useonly"**andboxes

FOR EXAMINERS´ USE ONLY		
EXR´S QN. No.	**MARKS**	
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A: 40 MARKS

Answer **all** questions in this Section

Questions 1 to **20** carry two marks each

1. Divide 4949 by 7.

2. Write 808081 in words.

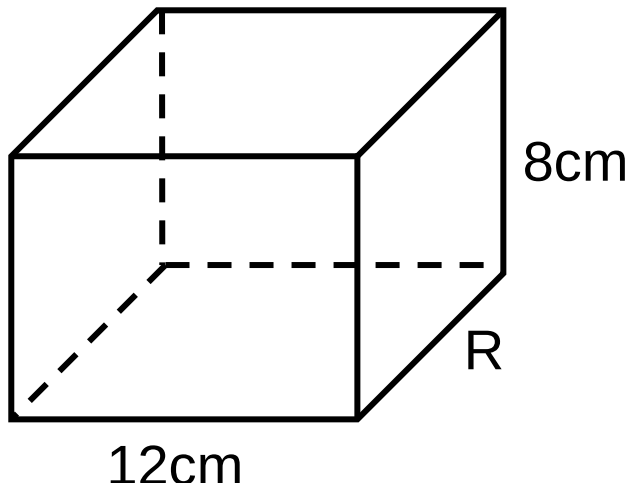
.....

.....

3. Express 0.0002km in metres.

4. Evaluate (x-y) given that $x = {}^{-}1$ and $y = {}^{-}6$.

5. The volume of the box below is 480cm³. Find the value of R.



6. Find the Highest Common Factor (HCF) of 16 and 20.

7. A bus moving at a speed of 80km/hr leaves Jinja at 8:00a.m for Busia and arrives there at 11:00a.m. How far is Busia from Jinja?

8. If nine plates cost sh.2700. What is the cost of seven plates?

9. Find the sum of 3a + 7 and 4a – 7.

10. Arrange $\frac{3}{4}, \frac{11}{12}, \frac{5}{6}, \frac{1}{2}$ and $\frac{7}{8}$ in ascending order.

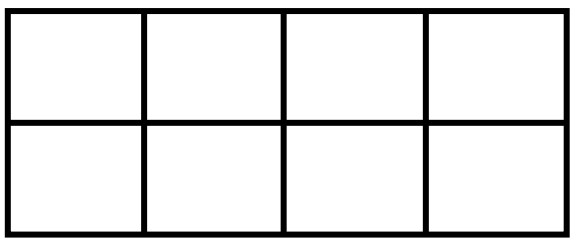
11. The pupils are aged (2x+5), (3x-10) and (x+3) years. Their total age is 34 years. How old is the youngest pupil?

12. A 2½hour test ended at 11:45a.m. At what time did it start?

13. What percentage of 10kg is 400gramms?

14. Use distributive property to workout (4.5×145) – (45×4.5).

15. Shade $\frac{3}{4}$ of the figure below.



16. What are the next two numbers in the series below?

48, 43, 36, 27, ……. , …….

17. Kato wrote a three digit number using digits 1, 3 and 6.
If Kato wrote all the possible 3 digit numbers greater than 300,
What is the probability of him writing an even number?

18. A taxi with 14 passengers and the driver all weigh 1700kg. If the weight of each person is 70kg. What is the weight of the vehicle?

19. The table below shows marks scored by different candidates in a marked out of 10.

No. of pupils	1	2	1	1
Marks out of 10	9	7	x	4

Find the value of x if the average score was 6.

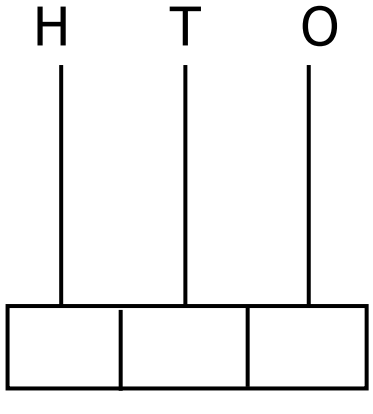
20. Find the simple interest on sh.60,000 for 5 years at a rate of 3⅓%.

SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets

21. (a) Draw beads to show the number 403 on the abacus below. (02 Marks)



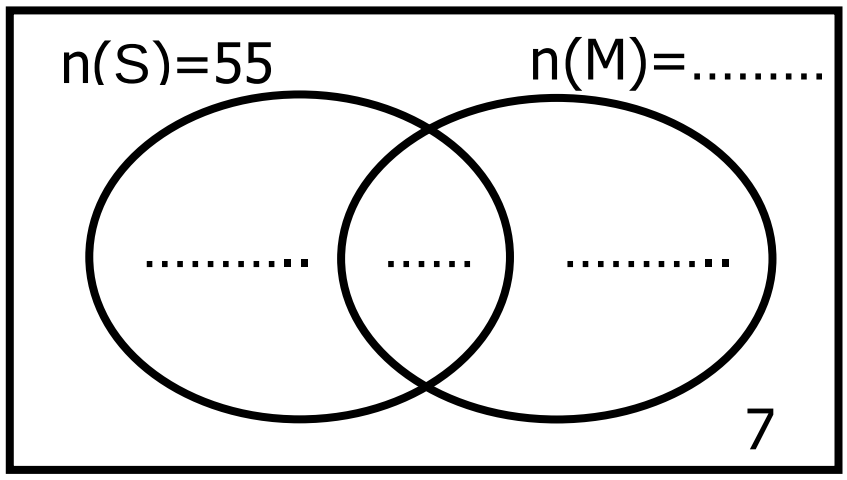
(b) Expand the number shown on the abacus using powers of ten. (01 Mark)

(c) What is the value of the number in the third position on the above abacus. (01 Mark)

22. At a party, 72 guests were invited, 55 were served with soda(S), y were served with mineral water (M), while 7 didn't take any of the two drinks and 17 were served with both drinks.

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

$n(\mathcal{E}) = 75$ (02 marks)



(b) Find the value of y. (02 marks)

(c) How many guests were served with one drink? (01 Mark)

23. James went shopping and bought the following items from the market.

A bottle of sanitizer at sh.4,000
2kg of sugar at sh.3500 per kg
5 litres of Fotune Butto cooking oil.

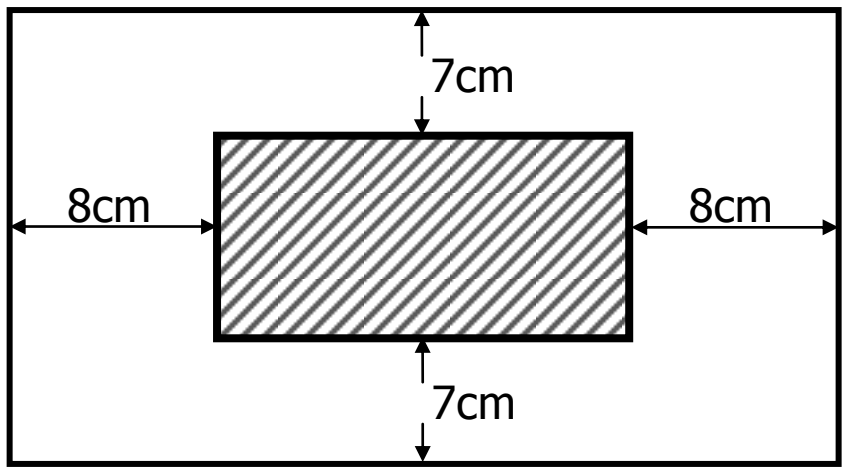
If he paid sh.38,500 for all the items, how much money did he buy each litre of Fortune Butto cooking oil? (04 Marks)

24. Seats in a theatre are arranged in rows for a concert. The theatre has 20 rows with 22 chairs each. On a Christmas day, children occupied 7 rows and elders occupied the rest.

(a) How many people attended the concert? (02Marks)

(b) If each child paid sh.3,000 and each elder paid sh.5,000, how much was collected from the concert that day? (04 Marks)

25. A piece of cloth is laid on the table 90cm long and 70cm wide as shown in the figure below. The area covered by the piece of cloth is shaded.



(a) Find the length and width of the piece of cloth. (02 Marks)

(b) Find the area of the table which is not covered by the piece of cloth. (04 Marks)

26. In Nyendo market, the cost of the cow is 7 times the cost of the goat. Shamran bought a cow and a goat at sh.232,000. Find the cost of each of the two animals. (04 Marks)

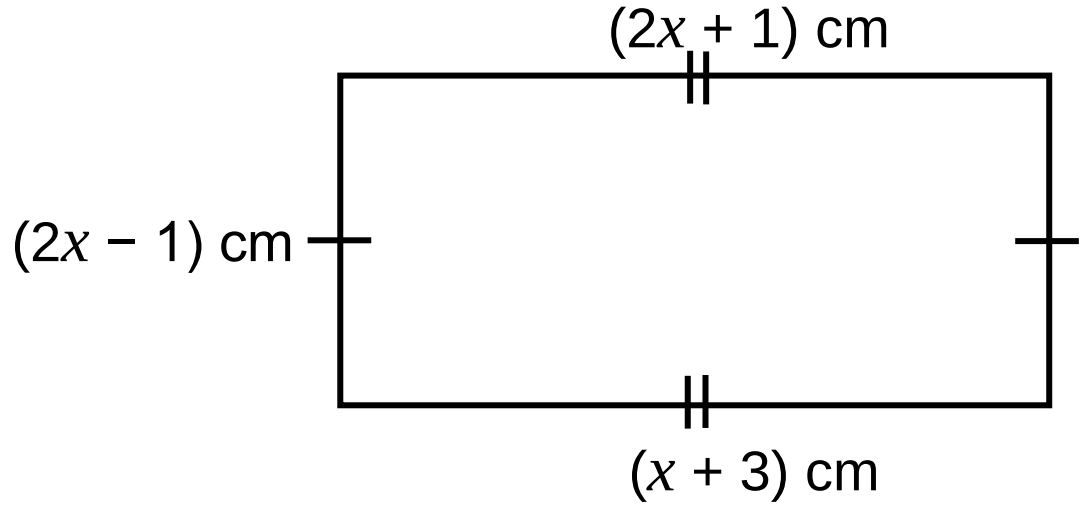
27. In a primary school, each pupil plays only one game, the pupils who each game are given as follows.

Football	-55
Volleyball	-45
Netball	-40
Basketball	-40
Tennis	-20.

(a) What percentage of pupils play Netball? (02 Marks)

(b) If a pupil is picked at random, What is the probability that the pupil plays volleyball? (02 Marks)

28. The figure below is a rectangle. Use it to answer the questions about it.



(a) Find the perimeter of figure. (04 Marks)

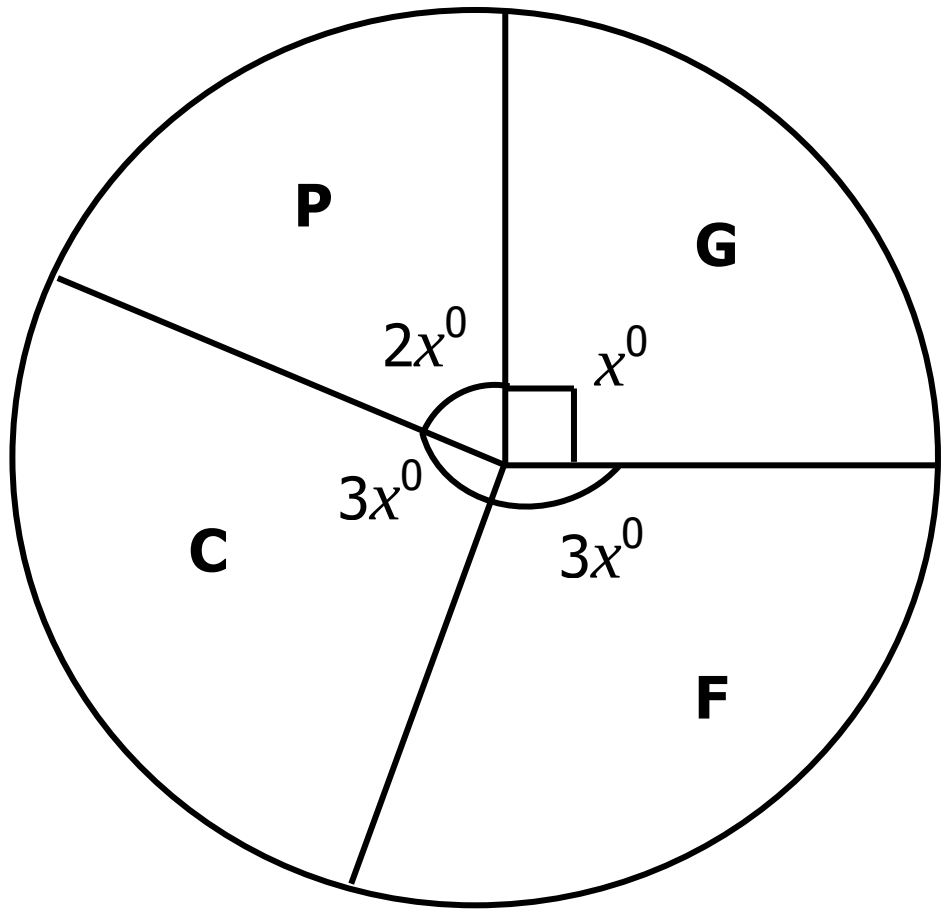
(b) Find the area of the rectangle. (02 Marks)

29. (a) The mean of $\frac{1}{2}$, x and $\frac{3}{4}$ is $\frac{5}{9}$. Find x. (03 marks)

(b) Find the range of 10, 8, 15, 3, -5, 6 and -1. (01 Mark)

(c) What is the median of 13, 15, 17 and 19? (01 Mark)

30. The Pie-Chart below shows how a farmer has divided his land. C is for cash crops, G is for grazing, F is for food crops and P for other purpose. The land available is 720 hectares.



(a) How many hectares are left for grazing. (03 Marks)

(b) If he pays sh.200,000 per hectare per year, How much will he pay for the land reserved for cash crops. (02 marks)

31. (a) Using a pair of compasses, ruler and pencil only, construct triangle **EFG** where $\overline{\mathbf{EF}}$ = 8cm, angle **GEF** = 60^0, angle **EFG** = 45^0. From **G** drop a perpendicular bisector **FG** to meet **EF** at **H**. (04 Marks)

(b) Measure $\overline{\boldsymbol{GH}}$ .....cm (01 Mark)

(c) Using $\boldsymbol{GH}$ as the height, find the area of triangle EFG. (02 Marks)

32. At Twalibah Islamic P/S, two bells are rung at different intervals of 30 minutes and 40 minutes. If they are rung together at 10:00a.m, At what time will they be rung together again?

(04 Marks)

END