



SURE KEY EXAMINATIONS BOARD

PRIMARY SIX QUALITY CHECK ONE

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Admission No.						Personal No.		

Pupil's Name:

Pupil's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.
2. This paper has two sections: **A** and **B**.
Section **A** has **20** questions and Section **B** has **12** questions. The paper has **12 printed pages** altogether
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated:
"For Examiners' Use only" and boxes

FOR EXAMINERS' USE ONLY		
Qn.No.	MARKS	EXR'S NO.
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. Workout: $305 \div 5$

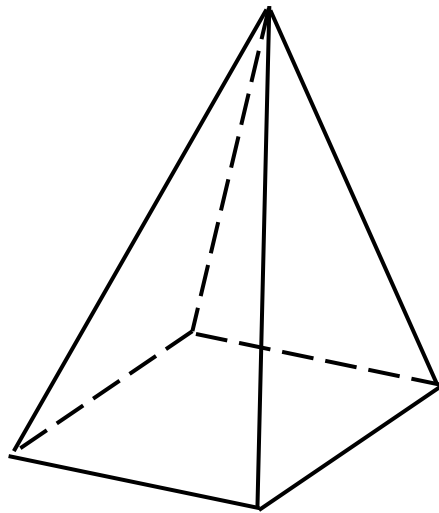
2. Write 13,013 in words.

.....

.....

3. Find the value of 8 in the number 2896.

4. The figure below is a pyramid. Use it to answer the questions about it.



(i) How many faces does it have?

.....

(ii) Find its number of edges.

5. Find the next number in the sequence.

0, 4, 10, 18, 28,

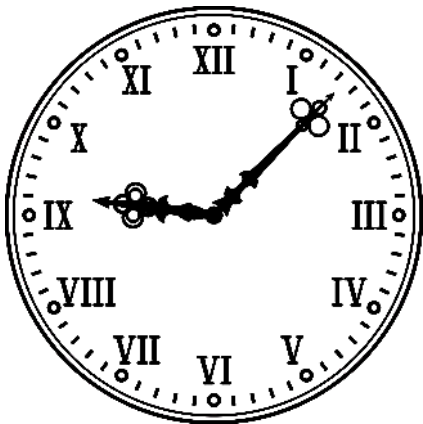


6. Convert 134_{five} to base ten.
7. Simplify: $3a - a + a + 2b$.
8. With the help of a protractor, draw an angle of 65° in the space provided below.
9. Four books cost sh.2000. Find the cost of 8 similar books.
10. Workout the Lowest Common Multiple (LCM) of 24 and 36.
11. Workout: $(6 \times 2) + (8 \times 2)$.



12. Amadi's cow gives him 12 litres of milk everyday. How many litres of milk will be milked from the cow in a fortnight?

13. What is the morning time shown on the clock face below?



14. Mr. Imran whose class has a total number of 30 pupils, counted the number of pupils present on a certain day and tallied as below.

|||| |||| |||

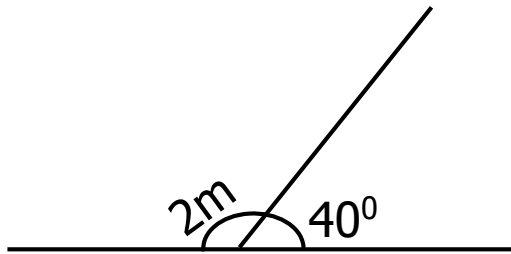
How many pupils were absent on that day from his class?

15. Find the mean of 3, 7, 5, 2 and 13.

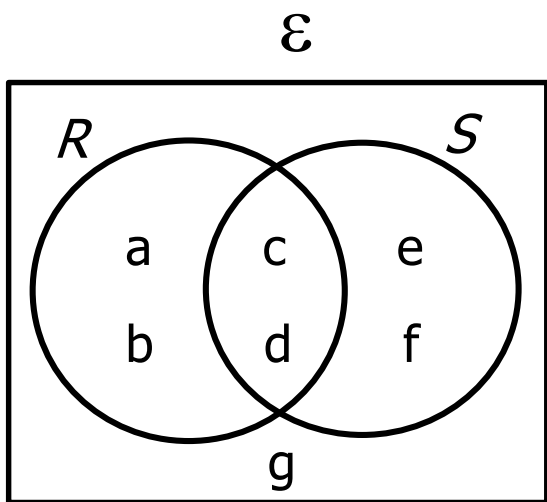
16. Workout: $\frac{3}{4} - \frac{1}{2}$



17. Find the size of angle m in the figure below.



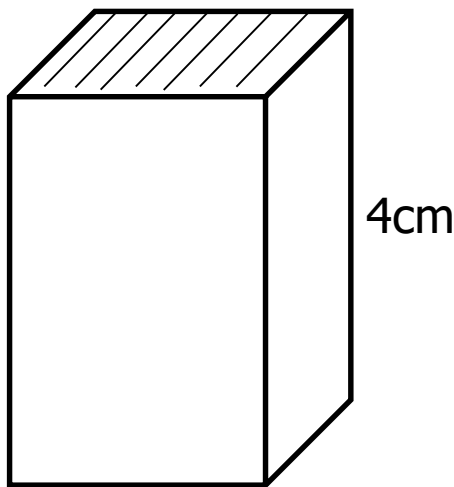
18. Use the Venn diagram below to answer the question below it.



How many elements are not found in set R ?

19. A bag contains 8 red pens and 7 blue pens. Find the probability of picking a red pen from the bag at random.

20. The area of the shaded part of the cuboid below is 15cm^2 . Find its volume.



SECTION B: 60 MARKS

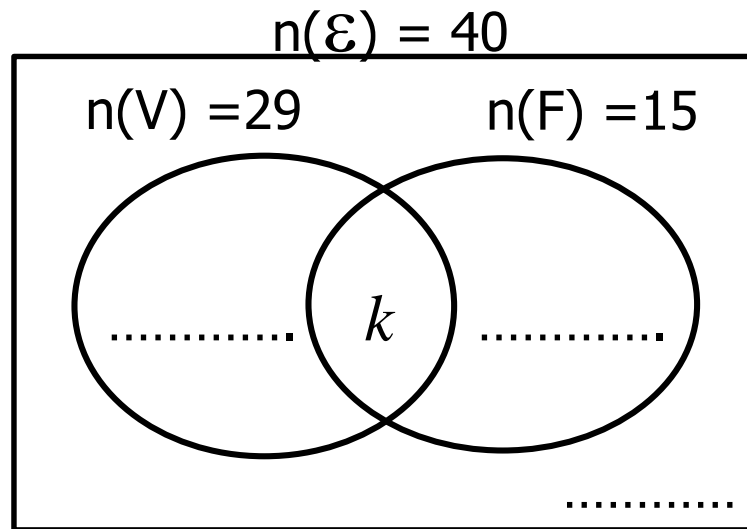
Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. In a class of 40 pupils, 29 pupils play Volleyball (V), 15 pupils play Football (F) k pupils play both games while 4 pupils play neither of the two games.

(a) Use the above information to complete the Venn diagram below.

(03 Marks)



(b) How many pupils play both games?

(02 Marks)

22. Kazibwe was given a twenty thousand shillings note to go to the shop and buy the items listed below.

- 3kg of sugar at Sh.3,000 each kg.
- Pancakes for Sh.2,000
- 2 bars of soap at Sh.2,500 each bar.
- A parking bag for Sh.500.

Calculate the change the shopkeeper gave to Kazibwe.

(05 Marks)



- (b) Work out:
- | HRS | MIN |
|-------|-----|
| 4 | 26 |
| + 7 | 47 |
| <hr/> | |
| <hr/> | |

24. (a) Using a pair of compasses, a ruler and a sharp pencil only, construct rectangle STEM, where $ST = ME = 8\text{cm}$ and $TE = 6\text{cm}$ in the space provided below. (04 Marks)

- (b) Measure diagonal SE cm. (01 Mark)



25. In a Literacy test given to a P.2 class, the marks, frequency and total marks are shown in the table below.

Marks	Frequency	Total Marks
4	4	16
5	45
.....	14	84
7	8
9	5	45

(a) Complete the above table (03 Marks)

(b) How many pupils did the test? (02 Marks)

(c) What is the range of the marks in the test? (01 Mark)

26. (a) Simplify: $\frac{1}{2} - \frac{1}{3} + \frac{1}{4}$ (03 Marks)

- (b) Help Sam to arrange fractions; $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$ in descending order without using diagrams. (03 Marks)

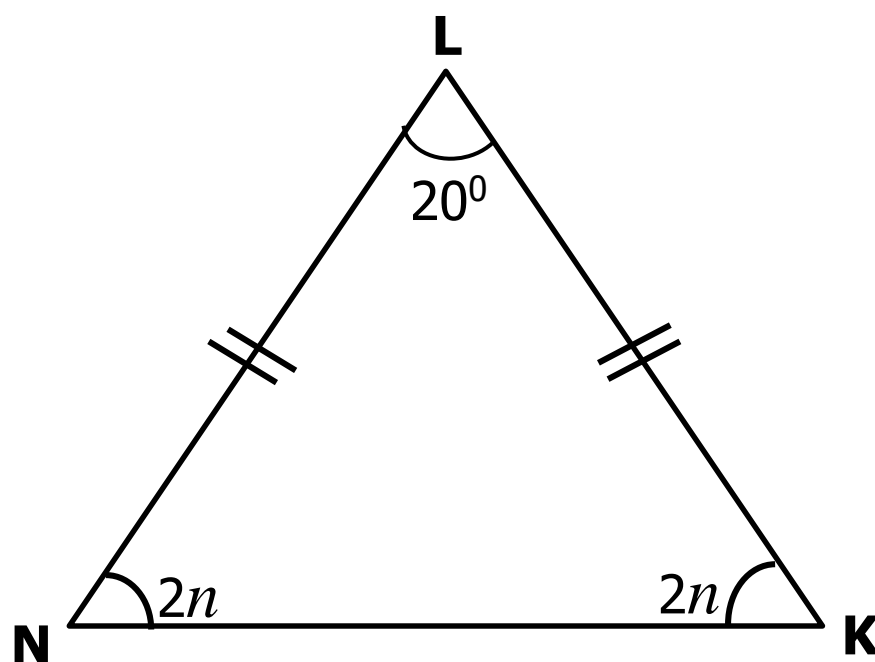


27. The table below shows how a taxi charges passengers from and to different places along Kagoma – Wandegeya route. Use it to answer the questions about it.

Places	Charges
Kagoma to Maganjo	Sh.500
Maganjo to Kawempe.	Sh.1,000
Kawempe to Bwaise	Sh.1,500
Bwaise to Wandegeya	Sh.2,000

- (a) How much does a passenger from Maganjo to Bwaise via Kawempe pay? (02 Marks)
- (b) If the taxi picks 14 passengers who are travelling directly from Kagoma to Wandegeya and it makes 3 similar trips. How much Money would it collect that day? (04 Marks)

28. The figure below is an Isosceles triangle NKL with angle LNK equal to angle LKN. Use it to answer the questions about it.



- (a) Find the value of n if the sum of all the angles in the above triangle is 180° . (03 Marks)

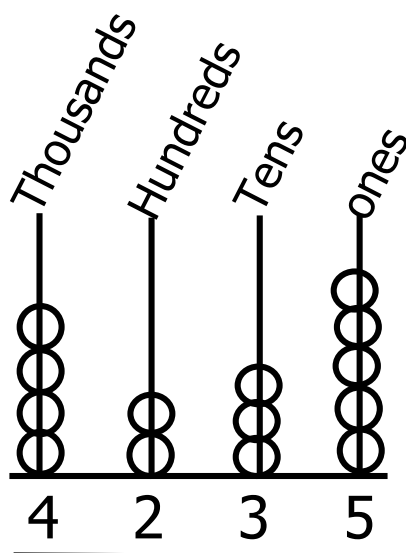
- (b) Calculate the size of angle LNK. (02 Marks)



29. (a) Given that $m = 6$, $b = 3$ and $n = 2$. Find the value of $\frac{mn}{b}$ (02 Marks)

- (b) Taata Sam is 19 years older than his son Sam who is 9 years now.
How old is Taata Sam now? (02 Marks)

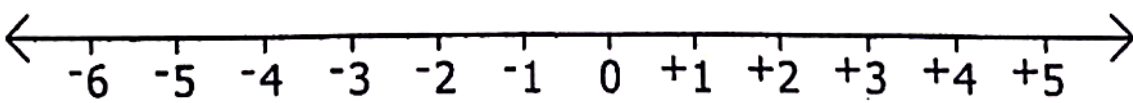
30. The abacus below illustrates a certain number. Use it to answer the questions about it.



- (a) Expand the illustrated number using powers of ten. (02 Marks)
- (b) Find the value of the digit in the hundreds place value. (02 Marks)
- (c) What is the product of the value of the digit in the hundreds place value and that in the ones place value? (02 Marks)



31. Jonathan was told to demonstrate how to use a numberline in real life to the whole class. The teacher told him to move 4 steps forward and begin from where he had stopped to move 7 steps backwards.
- (a) Use the numberline below to show Jonathan’s movements and circle his answer. (03 Marks)



WELL DONE

- (b) Write the addition Mathematical statement you have shown on the numberline above. (01 Mark)

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32. Kamadi sold his radio at Sh.60,000 to Nsamba making a profit of Sh.8,000. Nsamba later sold the same radio to Ntambi at Sh.45,000.
- (a) How much did Kamadi buy the radio? (02 Marks)

- (b) Write in words, the loss Nsamba made after selling the radio to Ntambi. (02 Marks)

