JERICO JUNIOR SCHOOL

PRIMARY SIX END OF TERM I EXAMINATION

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 **15 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

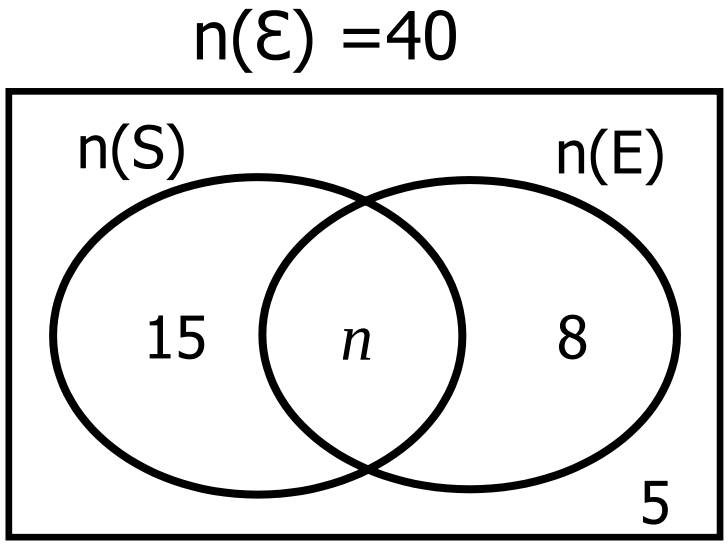
Answer **all** questions in this Section

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

1. Add:
$$\begin{array}{r} 723 \\ +\ 264 \\ \hline \end{array}$$

2. Write in figures; seven thousand, forty one.

3. Study the Venn diagram below and find the value of n.



4. Write the next number in the sequence below.

1, 4, 9, 16, 25, …….

5. Find the distance Messi covers at a speed of 60km/hr in 2 hours?

6. Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of 90^0 in the space below.

7. Given that y=4, p =3, work out the value of 3y + p.

8. How many $\frac{1}{2}$ litre cups of water can be obtained from a 3 litre Jug?

9. The cost 0f 3 books is sh.12,000. Find the cost of 5 similar books**.**

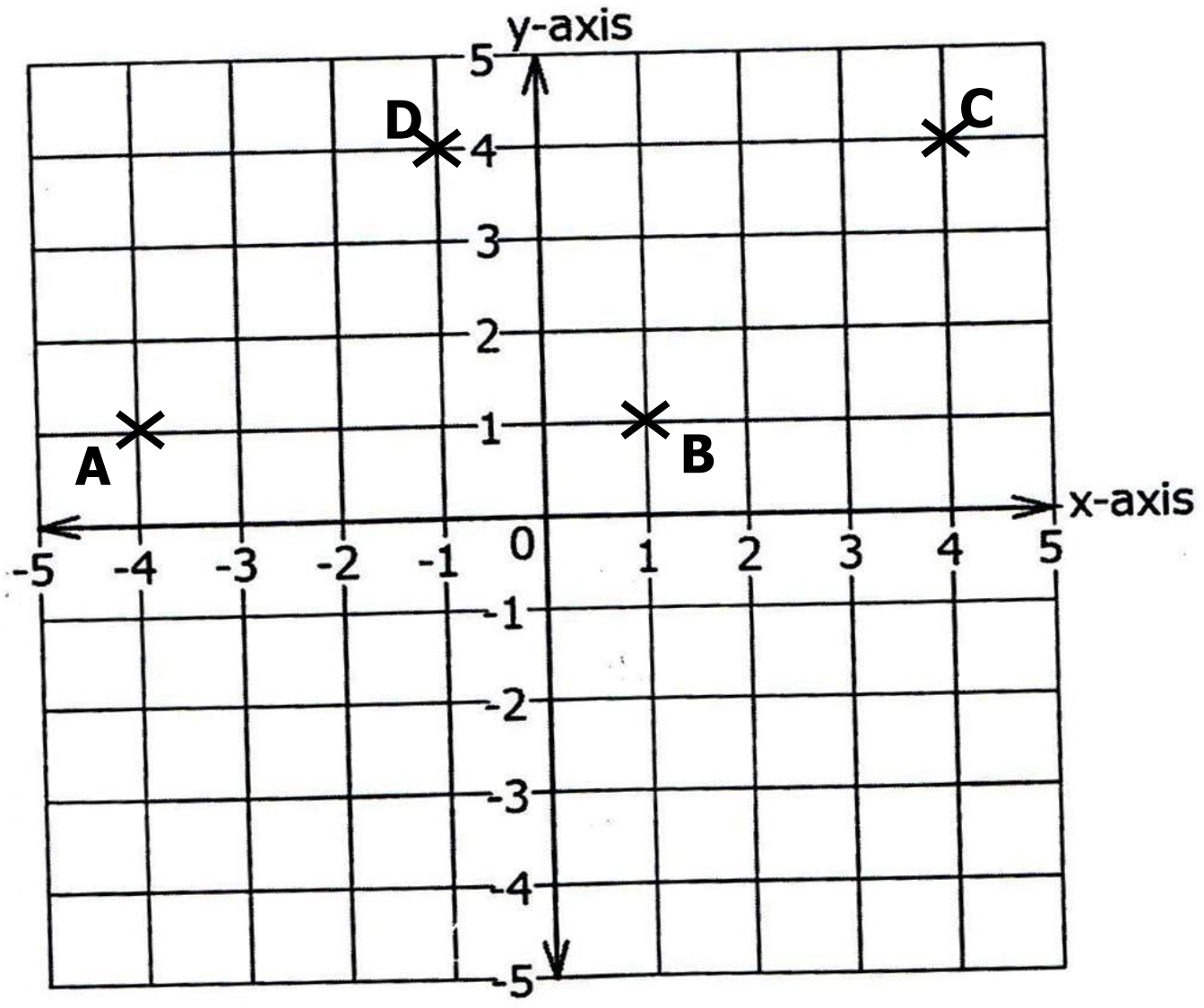
10. What number has been expanded to give ;
(4 X 1000) + (8 X 100) + (7 X 1)?

11. Find the least number of sweets which can be shared by 4 boys or 3 boys without leaving a remainder.

12. Juma bought a bicycle at sh. 58,000 and later sold it to Tom at sh. 50,000. How much profit did Juma get after selling the bicycle ?

13. Workout the sum of 7.5 and 5.3

14. In the graph below, join point **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A**.



Name the polygon **ABCD** formed.

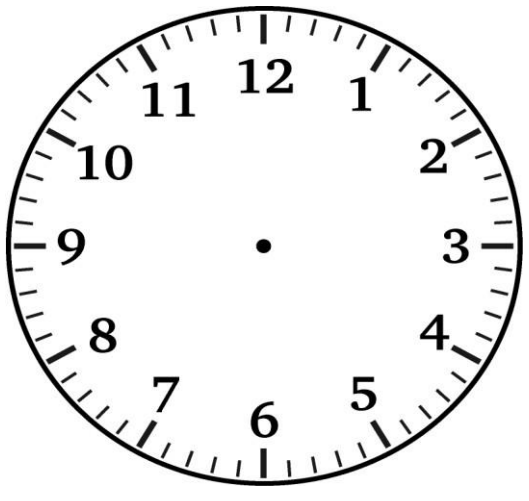
.....

15. Workout the sum of the 6^{th} and 4^{th} triangular numbers.

Turn Over

16. In a school of 540 pupils, there are 210 boys and the rest are girls. Find the number of girls in the school.

17. Show a half past 3 O'clock on the on the clock face below.



18. Solve the equation: $2x - 3 = 13$.

19. Find the range of the following numbers; 2, 6, 1, 14, and 7.

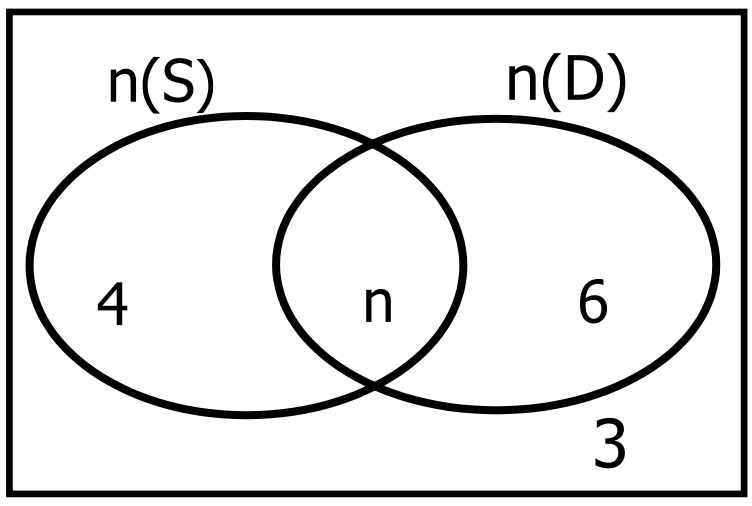
20. Change 23_{five} to base ten

SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets

21. The Venn diagram below shows 15 pupils in a certain class who like singing (S) and others dancing (D), the rest like neither of the two.



(a) If there are 15 pupils in the whole class, find the value of n. (02 Marks)

(b) How many pupils like only one activity? (02 Marks)

Turn Over

22. (a) Simplify: 8 boys + 7 girls – 2boys + 2 girls. (02 Marks)

(b) Kalibbala is 24 years old, Kato is 5 years older than Kalibala. How old is Kato? (02 Marks)

(c) How old will Kalibala be in 2030? (02 marks)

23. Rose went for shopping and bought the following items

4kg of sugar at Sh.12,000.
2 litres of cooking oil at Sh.11,000.
3 bars of soap at sh.9,000.

(a) How much did she pay for sugar and cooking oil? (02 Marks)

(b) How much did she pay for all the items? (02 Marks)

24. (a) Workout: $103_{five} + 42_{five}$ (02 Marks)

(b) Given that $23_x = 13$. Find the value of X (03 Marks)

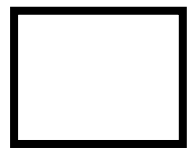
25. Arrange the following fractions to arrange in ascending order

$\frac{1}{2}$, $\frac{2}{3}$, $\frac{1}{4}$

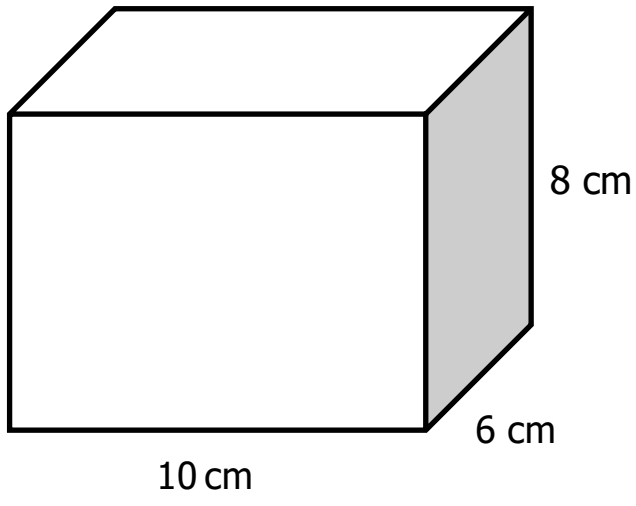
26. (a) Using a ruler, a pencil and a pair of compasses only, Construct a square ABCD where line AB =BC = 7 cm.

(04 Marks)

(b) Calculate the distance around the figure above. (01 Mark)



27. The figure below is a cuboid . use it and answer questions that follow



(a) Find the volume of the figure above

(03 Marks)

(b) Find the area of the shaded part of the cubiod (02 Marks)

Turn Over

28. A motorist driving at a steady speed of 40km/hr used 3 hours to cover the whole journey .

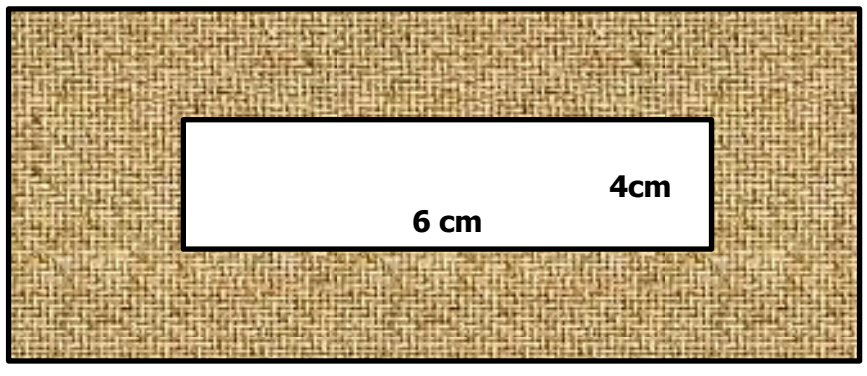
(a) What distance did the motorist cover? (02 Marks)

(b) If the motorist returned at a steady speed of 30km/hr. How long did the journey take? (02 Marks)

29. (a) Find the Lowest Common Multiple (LCM) of 8 and 12. (02 Marks)

(b) The sum of three consecutive counting numbers is 15. What is the range of the numbers? (04 Marks)

30. The figure below is a photo in a photo frame. Use it to answer the question that follow



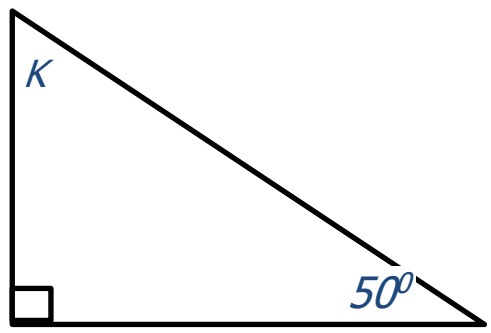
(02 Marks)

(a) Find the area of the photo frame

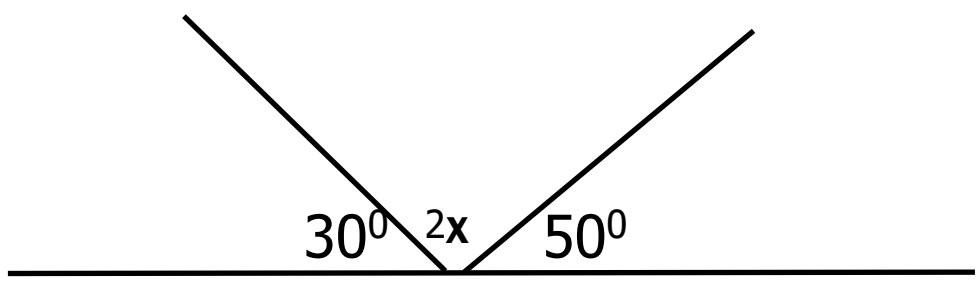
(b) Find the area covered by the photo

(c) Find the area not covered by the photo

31. (a) Find the value of missing angle K. (02 Marks)



(a) Work out the size of angle x in degrees. (02 Marks)



32 In a village of 40 farmers, $\frac{1}{4}$ grow rice and the rest grow maize

(a) Find the fraction of farmers who grow maize

(b) How many farmers grow rice?

(c) How many more farmers grow maize than rice?