

# PRIMARY SIX

## MATHEMATICS

*Time allowed: 2 hours 30 minutes*

Name: \_\_\_\_\_

School: \_\_\_\_\_

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY

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Qn. No	MARK	SIGN
1 - 10		
11 - 20		
21 - 30		
31 - 32		
TOTAL		

*Turn over*

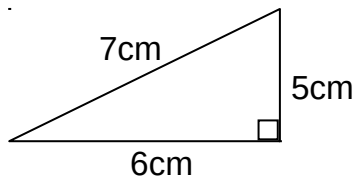
**SECTION A: (40 MARKS)**

1. Add:

$$\begin{array}{r} 13 \\ + 56 \\ \hline \\ \hline \end{array}$$

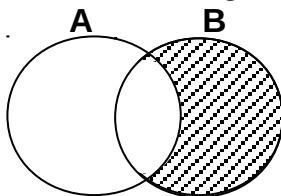
2. What is the place value of 4 in the numeral 2430?

3. Work out the area of the figure below.



4. Write XLV in Hindu Arabic numerals.

5. Describe the shaded region.



6. Give the next number in the sequence below.

2, 3, 5, 7, \_\_\_\_\_

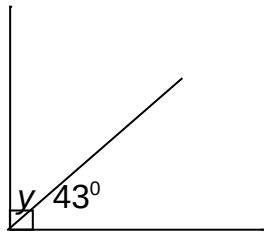
7. Simplify:  $\frac{1}{3} + \frac{1}{6}$

8. Work out  $4 + 3 = \underline{\hspace{2cm}}$  (mod 5)

9. Kamoga bought an art book at shs. 1000. He then sold it at shs. 700. Find his loss.

10. Find the mean of 8, 6, 5 and 1.

11. Calculate the value of  $y$  in degrees.



12. What is  $\frac{3}{4}$  of 120 mangoes?

13. Write in figures Two thousand fifteen

14. Kiryowa had sh. 23600 and Musisi had sh. 21400. How much more money did Kiryowa had than Musisi?

15. Katana bought 5500g of rice. How many Kg did she buy?

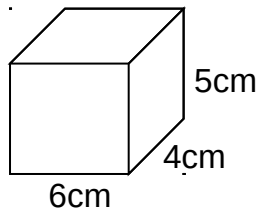
16. Find the number shown by the tallies below.

### ### ### IIII

17. Solve:  $2k - 4 = 12$

18. Use a protractor to draw an angle of  $75^\circ$ .

19.



Find the volume of the figure.

20. Add: **Weeks**      **Days**

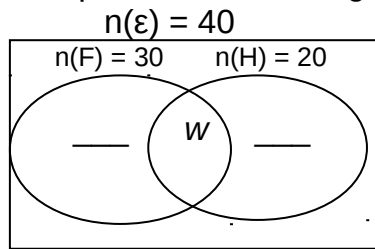
3                      4  
+ 2                    6  
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**SECTION B: (60 Marks)**

21. In a class of 40 pupils, 30 pupils enjoy playing football (F), 20 pupils enjoy playing Hockey (H) while  $w$  pupils enjoy playing both games.

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



(b) How many pupils enjoy both games? (2 marks)

(c) Find the number of pupils who enjoy only one game. (2 marks)

22. In a class of 40 pupils,  $\frac{1}{4}$  are girls and the rest are boys. (2 marks each)

(a) How many girls are in the class?

(b) Find the number of boys in the class.

(c) How many more boys than girls are in the class?

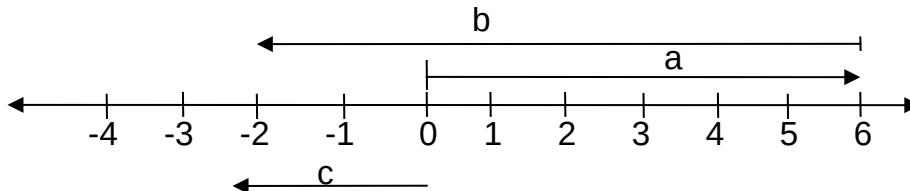
23. Study the shopping bill shown below.

Item	Quantity	Unit price	Total cost
Shirts	2 shirts	Sh. 4500	Sh. ....
Stool	1 stool	Sh. ....	Sh. 7000
Table	2 tables	Sh. 10500	Sh. ....
Chair	3 chairs	Sh. 3500	Sh. ....
		<b>Total</b>	<b>Sh. ....</b>

Complete the table (show the working)

(1 mark each)

24. Use the number line below to answer the questions that follow. (1 mark each)



(a) Write the integers for: (i) a

(ii) b

(iii) c

(b) Write the additional statement for the above number line. (2 marks)

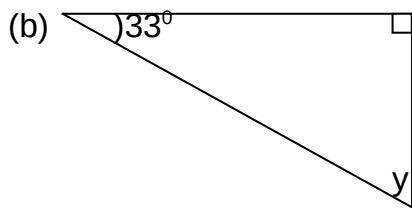
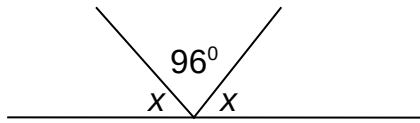
25. Given the digits 4, 9, 3, 8, 6

(a) Form the smallest numeral using the above digits. (1 mark)

(b) Find the biggest numeral using the above digits. (1 mark)

(c) Find the sum of the largest and the smallest numerals formed. (2 marks)

26. (a) Find the value of unknowns in the diagrams below. (2 marks each)

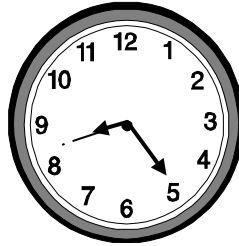


27. (a) Calculate the speed of a car that covers a distance of 180km in 3 hours. (2 marks)

(b) Work out: **HRS** **MIN** (1 mark)

$$\begin{array}{r} 3 \quad 40 \\ - 1 \quad 50 \\ \hline \\ \hline \end{array}$$

(c) Write the morning time shown on the clock face. (Use a.m/p.m) (1 mark)



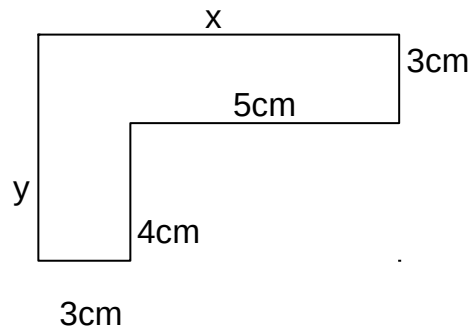
28. (a) Work out:  $\frac{3}{4} - \frac{2}{3}$  (2 marks)

(b) Multiply:  $\frac{1}{4} \times \frac{2}{3}$  (1 mark)

(c) Add:  $0.45 + 3.6$  (2 marks)

29. Below is a plan of a house. Use it to answer the questions that follow.





(a) Find the length of; (1 mark each)

(i)  $y$

(ii)  $x$

(b) Calculate the perimeter of the figure. (2 marks)

(c) Work out its area. (2 marks)

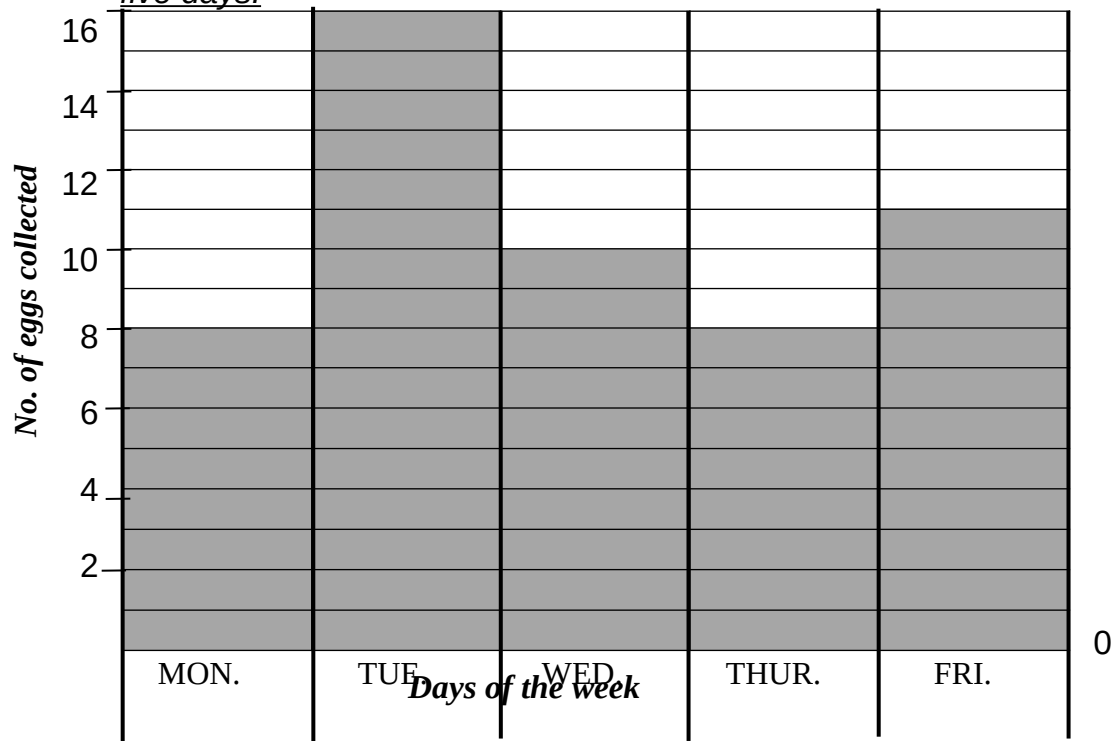
30. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle in a circle of radius 4cm. (4 marks)

31. (a) Solve:  $2x + 3x = 20$  (2 marks)

(b) I think of a number, subtract 8, the result is 14. Find the number. (2 marks)

(c) Given that  $x = 4$ ,  $y = 6$  and  $z = 3$ . Find the value of  $\frac{xy}{z}$  (2 marks)

32. The graph below shows the number of eggs collected by Kironde on his farm for five days.



(a) Which days did Kironde collect the same number of eggs? (1 mark)

(b) Work out the difference between the most and least number of eggs. (2 marks)

(c) Calculate the total number of eggs collected in the five days. (2 marks)

**Good Luck**