GREENHILL ACADEMY

PRIMARY SCHOOL

BEGINNING OF TERM III EXAMINATIONS 2023

CLASS : P.6

SUBJECT : MATHEMATICS

TIME ALLOWED : 2 HOURS 30 MINUTES

Name _____ **Stream** _____

Campus _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully

For Examiner's use only	
A	
B	
TOTAL	

1. **This paper has two Sections: A and B.**
2. **Section A has 20 answer questions (40 marks)**
3. **Section B has 12 questions (60 marks)**
4. **Answer ALL questions. Answers to both sections must be written in the spaces provided.**
5. **All answers must be written using blue 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 box indicated for examiner's use only.**

SECTION A:

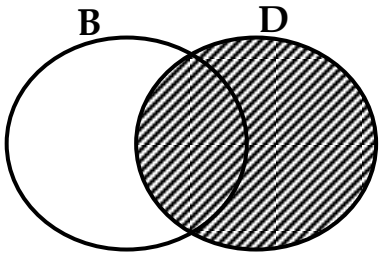
1. Workout: 32 x 3

2. Find the value of 2 in the number 321.

3. Solve: x – 4 = 6.

4. Find the sum of $\frac{1}{2}$ and $\frac{1}{4}$.

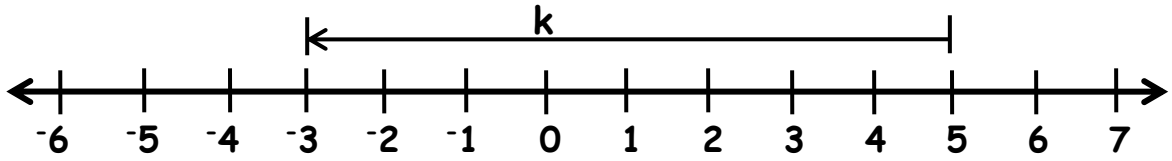
5. Describe the shaded region below.



6. Workout the Lowest Common Multiple of 8 and 12.

7. The mean age of 3 girls is 12 years. Work out their total age.

8. What is the additive inverse of the integer represented by **K**?



9. The length of a roll of cloth is 60metres. Calculate the length of the cloth in millimetres.

10. Using a sharp pencil, a ruler and a pair of compasses only, construct an angle of 45^0 in the space provided below.

11. William bought a mathematical set at sh.2500 and sold it to Victoria at sh.3000. Calculate his profit.

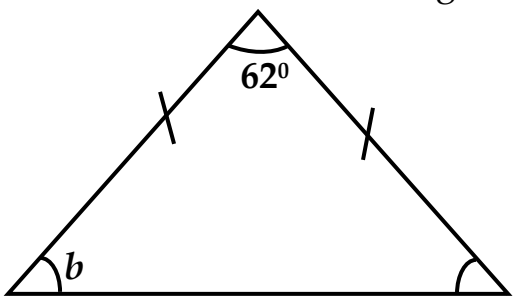
12. A forty minute lesson started at 8:30am. At what time did it end?

13. Given that set P = {d , o , g}. Find the number of subsets which can be formed from set P.

14. Round off 362 to the nearest hundreds.

15. Given that  represents 15 balls. Draw pictures to represent 75 balls.

16. Find the value of b in the figure below.



17. Increase shs. 2000 by 30%

18. Workout the missing number in the sequence.

3 , 4 , 6 , 9 , 13 , _____

19. If $\mathbf{m} = \frac{\mathbf{2}}{\mathbf{3}}$ and $\mathbf{n} = \frac{\mathbf{8}}{\mathbf{9}}$, find the value of $\frac{\mathbf{n}}{\mathbf{m}}$.

20. A half a dozen of books cost sh. 12000. Find the cost of 30 similar books.

SECTION B:

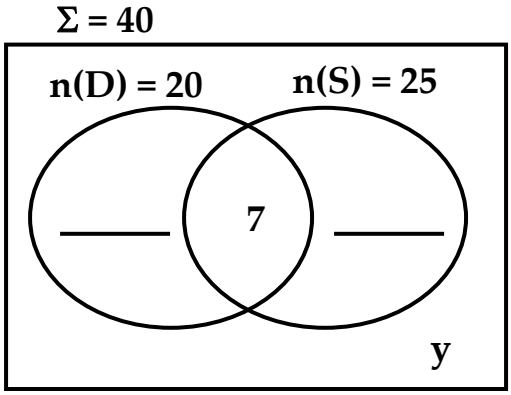
21. (a) Workout: $2\ 3\ 4_{\text{five}} - 1\ 2_{\text{five}}$ (2 marks)

(b) Express 4053 in expanded form using place values. (2 marks)

22. In a group of 40 scouts, 20 like dancing (D), 25 like singing (S) , 7 like both dancing and singing, while y do not like any of the activities.

a) Represent the above information on the venn diagram below.

(2 marks)



b) How many scouts do not like dancing and singing? (2 marks)

c) Find the probability of selecting a scout who likes only singing

(2 marks)

23. Three farmers harvested 990 mangoes in the ratio of 2:5:4 respectively.

a) Find the number of mangoes harvested by each farmer. (4 marks)

b) Show the biggest share on an abacus. (1 mark)

24. A lorry left Kampala at 10:00am and reached Masaka at 12:00 noon covering a distance of 120km.

a) How long did the lorry take to reach Masaka? (2 marks)

b) Calculate the average speed for the whole journey. (2 marks)

25. A pupil bought a book and a pen at shs. 2200. If the cost of the book is shs.200 more than a pen;

a) Find the cost of a pen. (3 marks)

b) Find the cost of 2 similar books. (2 marks)

26. Using a pair of compasses, a ruler and a pencil only, construct a triangle LMN such that LM = 7cm, angle NLM = 60^0 and angle LMN = 30^0.

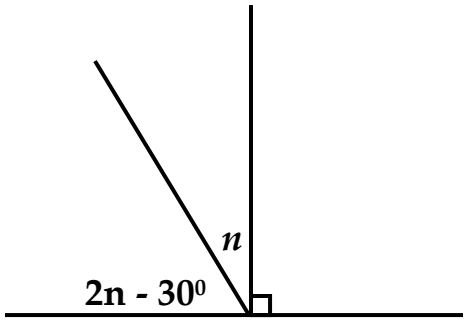
(4 marks)

b) Measure line LN. _____ (1 mark)

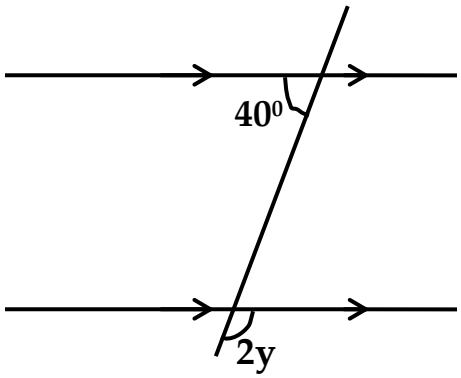
27. The sum of three consecutive counting numbers is 24. Find the three numbers. (5 marks)

28. In the figures below, calculate the value of the unknowns in degrees.

a) (3 marks)



b) (2 marks)



29. The table below shows the marks scored in a monthly test done by the pupils.

Marks	**20**	**40**	**70**	**50**
No. of pupils	**2**	**3**	**1**	**1**

a) How many pupils did the test? (1 mark)

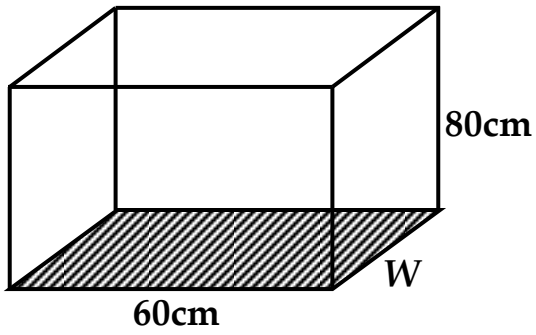
b) Find the range of the marks? (2 marks)

c) Calculate the average mark. (3 marks)

30. a) Workout: $\frac{\mathbf{0.16 \times 0.4}}{\mathbf{0.008}}$ (3 marks)

b) Simplify: $\frac{\mathbf{1}}{\mathbf{2}} - \frac{\mathbf{3}}{\mathbf{4}} + \frac{\mathbf{2}}{\mathbf{5}}$ (3 marks)

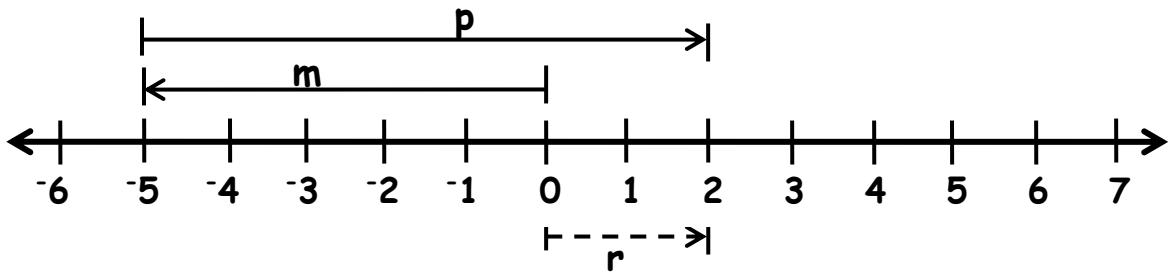
31. **Study the diagram below and answer the questions that follow.**



a) Given the shaded area as 1200cm², find the value of *W*. (2 marks)

b) Calculate the volume of the box. (2 marks)

32. Use the numberline below to answer the questions that follow.



a) Write the integers represented by; (3 marks)

(i) P = _____ (ii) m = _____ (iii) r = _____

b) Write the mathematical sentence shown on the above numberline.

(2 marks)