PRE-PLE EXAMINATION, 2024 MATHEMATICS (SET 5)

Time allowed: 2 hours 30 minutes

| Random No. | | | | Personal No. | | | | |
|------------|--|--|--|--------------|--|--|--|--|
| | | | | | | | | |

| Candidate's Name: |
|------------------------|
| Candidate's Signature: |
| Date: |

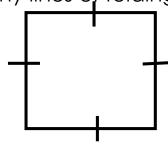
Read the following instructions carefully:

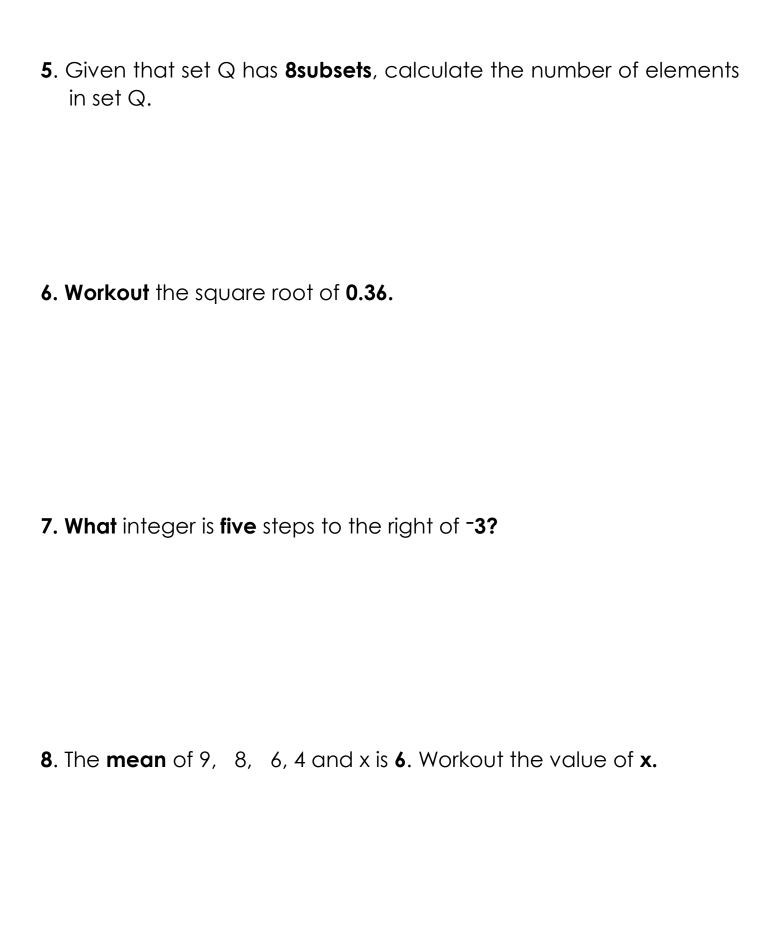
- 1. Do not write your **school** or **district name** anywhere on this paper.
- This paper has two Sections: A and B. Section A, has
 questions and Section B has 12 questions.
- 3. Answer **all** the questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
- 4. **All** the working **must** be done using a **blue** 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.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 7. Do not fill or write anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

| Qn. No. | Marks | Examiner's No |
|---------|-------|------------------|
| 1-10 | | |
| 11- 20 | | |
| 21 – 30 | | |
| 31 – 40 | | |
| 41 – 43 | | |
| 44 – 46 | | |
| 47 – 49 | | |
| 50 - 52 | | |
| 53 – 55 | | |
| TOTAL | | |

3. Express 1101_{two} to a decimal base.

4. How many lines of folding symmetry has the figure below?





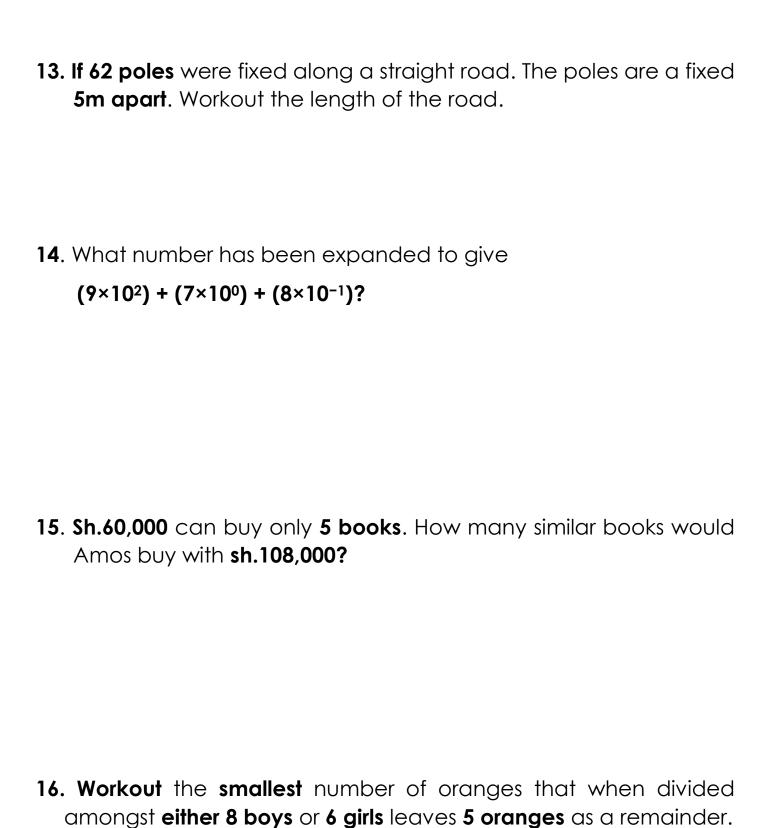
9. What morning time is shown on the clock face below?



10. Use distributive property to workout: (8.5×6) + (8.5×14).

- 11. Find the next number in the sequence;
 - 2, 3, 5, 7, ____

12. Using a ruler, pencil and a pair of compasses only, construct an angle of 60° in the space below.

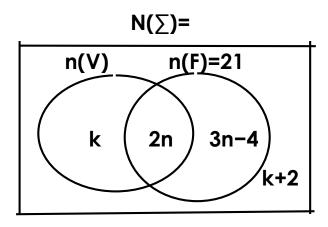


18. Nozu deposited sh.72,000 in a bank that gives interest rate of 10% per year a period of $1\frac{1}{2}$ years, calculate the interest Nozu will get in his account.

19. Adongo was facing **northeast** and tuned clockwise **135°**. Which direction is she facing now?

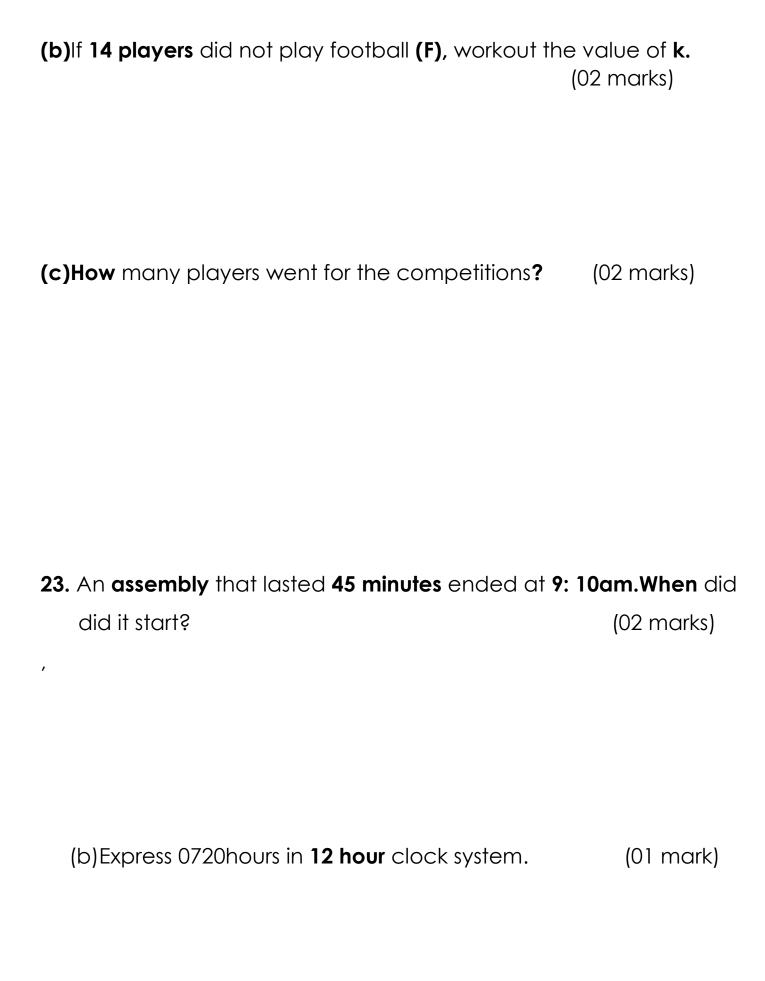
| 20 | Round of 39.96 to the nearest tenths. | |
|----|--|--------------------|
| | | |
| | SECTION B: 60 MARKS | |
| 21 | Some children in primary six scored the following 42, 35, 28, 40, 35, and 60 | ng marks in a test |
| | (a)Workout the median mark | (02 marks) |
| | (b)Calculate the mean score | (02 marks) |
| | | |

22. The **Venn diagram** below represents a school team that went out for competition in football **(F)**, and Volleyball **(V)**. Study it and answer questions that follow;



(a) Work out the value of \mathbf{n} .

(02 marks)

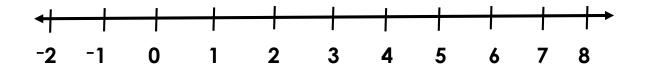


(c)A taxi moving at a steady speed of 120km per hour travelled for only 20 minutes, what distance did the taxi cover?

(02 marks)

24.(a)Show 4 × 2 on a number line below;

(02 marks)

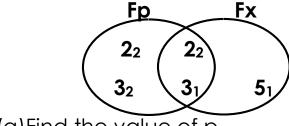


(b) Find the solution set for inequality; 20 \geq 3p + 5 \geq 11. (03 marks)

(2 marks)

(b)Workout the product of the value of **2** and the place value of **7** in the number **8529.736** (03 marks)

26. Study the Venn diagram below and answer the questions.



(a) Find the value of p.

(02 marks)

(b)Workout the GCF of Fp and Fx.

(01mark)

(02 marks)

27. Using a ruler, pencil and a pair of compasses only, construct a triangle ABC where AB = 6cm, angle ABC = 45°, line BC = 7cm.

(04 marks)

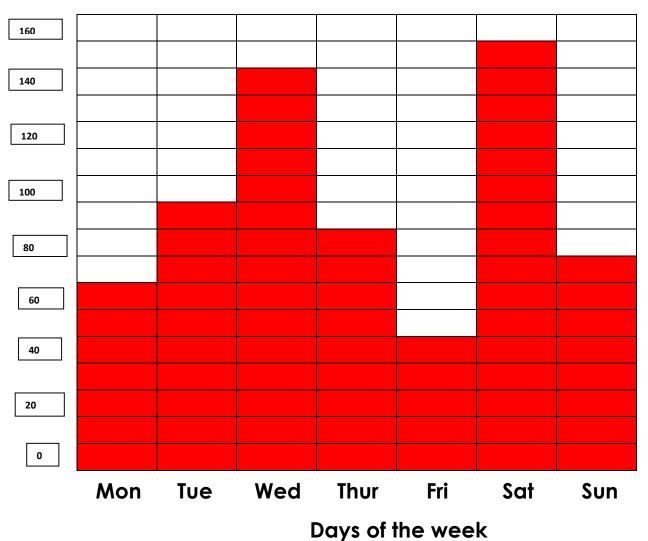
(b) Measure angle BAC _____

(01 mark)

(c)Measure length AC _____

(01mark)

28. The graph below shows the number of eggs collected from Kaka's poultry farm in a week. Study it carefully and answer questions that follow.

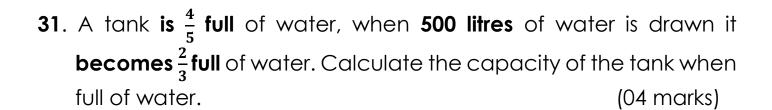


(a)How many eggs were collected on Thursday?

(01 mark)

| (b) Which day had the highest fall in the number of eggs? (01 mark) |
|--|
| (c)Workout the average number of eggs collected in the last four days. (03 marks) |
| |
| 29. The median of five consecutive odd numbers is 27. If the first number is k, workout the value of k. (02 marks) |
| |
| |

| (b)The temperature at night fell from 5°c to -25°c temperature fall. | (02 marks) |
|---|------------|
| 30. Jesca, Jacinta and Joan shared some books in s Jesca got 9 books, Jacinta got 6 books and Joa total books shared. | - |
| (a)What percentage of books did Jacinta get? | (03 marks) |
| (b) How many books did they share altogether? | (03 marks) |



32. A motorist travelled from town P to Q at a speed of 70km per hour. On the return journey, the motorist travelled at a speed of 50km per hour. The total time taken for the whole journey is 6 hours.

(a) Find the distance from town P to Q. (03 marks)

(b)Calculate the time taken on the **return** journey. (02 marks)