



KAMPALA CAPITAL CITY AUTHORITY
DIRECTORATE OF EDUCATION AND SOCIAL SERVICES
PRIMARY SEVEN MOCK EXAMINATION 2024
MATHEMATICS

TIME ALLOWED: 2 HOURS 15 MINUTES

INDEX NO.	EMIS No.					Personal No.		

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

EMIS No:

DIVISION NAME:

Read the following instructions carefully.

1. This paper is made up of two sections:
A and B
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer ALL questions in both sections A and B
5. ALL answers **MUST** be written in Blue or Black
Ball - point pen or ink.
6. Un-necessary alteration of work may lead to
loss of marks.
7. All diagrams **MUST** be drawn in pencil.
8. Any handwriting that cannot be easily read may
lead to loss of marks.
9. Do **not** fill any thing in the boxes shown
"For Examiner's use only".

©2024 KCCA MOCK EXAMINATION.

**FOR EXAMINERS' USE
ONLY**

QN. NO.	MARKS	SIGN
1 - 6		
7 - 13		
14 - 20		
21 - 25		
26 - 29		
30 - 32		
TOTAL		

TURN OVER

7. What integer is five steps to the right of -3 .

8. The mean of 9, 8, 6, 4 and x is 6, work out the value of x .

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



10. Use distributive property to work out: $(8.5 \times 6) + (8.5 \times 14)$

11. Find the next number in the sequence:

2, 3, 5, 7, _____

20. Round off 39.96 to the nearest tenths.

SECTION B (60 MARKS)

21. Some children in primary six class scored the following marks in a test: 42, 28, 40, 35 and 60. (2 marks)

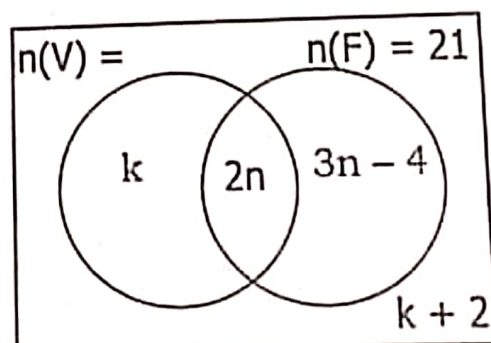
- a) Work out the median mark.

- b) Calculate the mean score. (2 marks)

- c) Find the modal frequency. (1 mark)

22. The Venn diagram represents a school team that went out for competition in Football (F) and Volleyball (V). Study it and answer the questions that follow.

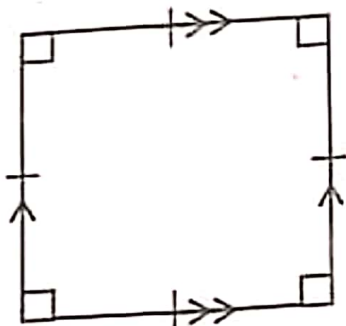
$$n(E) =$$



2. Simplify: $2y + y + 3y$

3. Express 1101_{two} to base ten.

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



Given that set Q has 8 subsets. Calculate the number of elements in

Work out the square root of 0.36.

a) Find the value of n .

(2 marks)

b) If 14 players did not play Football (**F**), work out the value of k . (2 marks)

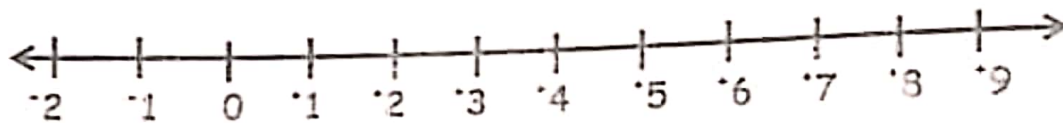
c) How many players went out for the competitions? (2 marks)

23. a) An assemble that lasted 45 minutes ended at 9:10am when did it start? (2 marks)

b) Express 0720hrs in 12hr clock system. (1 mark)

- c) A taxi moving at a speed of 120km per hour travelled for only 20 minutes. (2 marks)
What distance did the taxi cover?

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



- b) Find the solution set for the inequality: $20 \geq 3p + 5 \geq 11$ (3 marks)

25. a) Express 94 in Roman numerals. (2 marks)

- b) Work out the product of the value of 2 and the place value of 7 in the number 8529.736. (3 marks)

16. Work out the smallest number of oranges that when divided amongst either 8 boys or 6 girls leaves 5 oranges as the remainder.
17. Work out $8 + 8 \div 8$
18. NOZU deposited sh. 72, 000 in post bank that gives interest rate of 10% per year for a period of $1\frac{1}{2}$ years. Calculate the interest NOZU will get in her account.
19. Ademuni was facing North-East and turned clockwise 135° . Which direction is she facing now?

29. a) The median of five consecutive odd numbers is 27. If the first number is k , work out the value of k . (2 marks)

- b) The temperature at night fell from 5°C to -25°C . Calculate the temperature fall. (2 marks)

30. Jesca, Jacinta and Joan shared some books in such a way that Jesca got 9 books. Jacinta got 6 books and Joan got 40% of the total books shared. (3 mark)
- a) What percentage of books did Jacinta get?

- b) How many books did they share altogether? (3 marks)



31. A tank is $\frac{4}{5}$ full of water, when 500 litres of water is drawn, the tank becomes $\frac{2}{3}$ full of water. Calculate the capacity of the tank when full of water. (4 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. (3 marks)
- a) Find the distance from town P to Q.

- b) Calculate the time taken on the return journey. (2 mark)

26. A parent bought the items shown in the shopping bill below.
Work out and complete the bill.

(5 marks)

Item	Quantity	Unit cost	Amount
Sugar	1 $\frac{1}{2}$ kg	Sh. 4,000	_____
Milk	_____ litre	Sh. 2,000	Sh. 500
Meat	3kg	_____	_____
Rice	_____ g	Sh. 4,000	Sh. 3,000
Total			Sh. 54,500

27. a) Using a ruler, pencil and a pair of compasses only construct a triangle ABC where $\overline{AB} = 6\text{cm}$, angle $ABC = 45^\circ$, $\overline{BC} = 7\text{cm}$.

(4 marks)

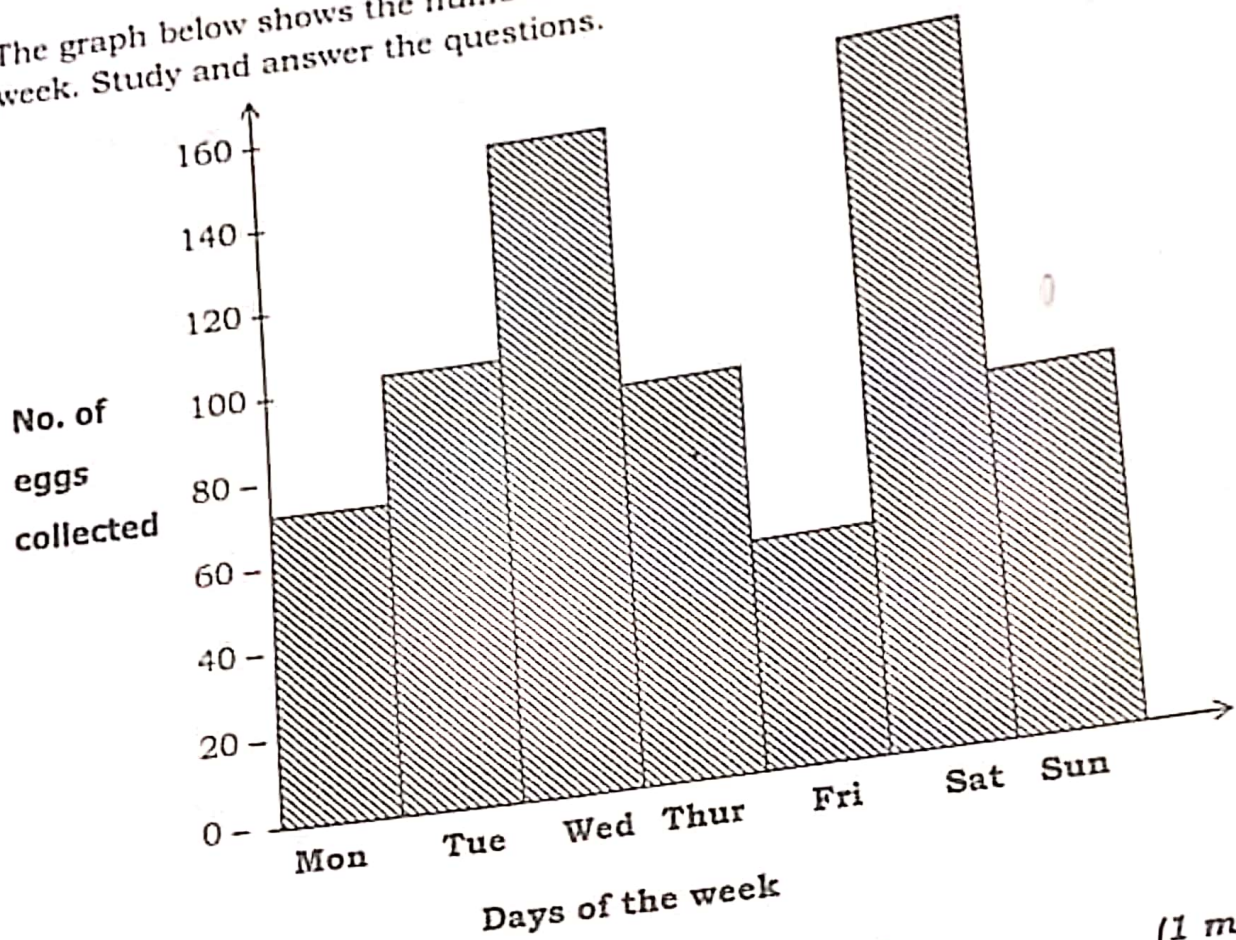
- Using a ruler, pencil and a pair of compasses only construct an angle of 60° in the space below.

13. 62 poles were fixed along a straight road. The poles are fixed 5m apart. Work out the length of the road.

14. What number has been expanded to give $(9 \times 10^2) + (7 \times 10^0) + (8 \times 10^{-1})$.

15. Sh. 60,000 can buy only 5 books. How many similar books would Amos buy with sh. 108,000?

28. The graph below shows the number of eggs collected in Jojo's poultry farm in a week. Study and answer the questions.



- a) How many eggs were collected on Thursday? (1 mark)
- b) Which day had the highest fall in the number of eggs collected? (1 mark)
- c) Work out the average of the number of eggs collected in the last four days. (3 marks)