BUSIA DISTRICT ACADEMIC BOARD

| P. | 7 | MOCK ASSESSME | NT 2024 | |
|---|----|-----------------|--------------|--|
| SUBJECT | • | MATHEMATICS | | |
| CLASS | 8 | PRIMARY SEVEN | | |
| DURATION | | 2 HOURS 30 MINU | TES | |
| Index No. | | Random No. | Personal No. | |
| 370 1103 | | | | |
| CANDIDATE'S NAME | | | •••••• | |
| CANDIDATE'S SIGNATU | RE | , | ••••••••• | |
| SCHOOL NAME | | * | ••••• | |
| District Name : | | | | |
| DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO READ THE FOLLOWING INSTRUCTIONS CAREFULLY 1. This paper is made up of two sections A and B. | | | | |
| 2. Section A has 40 questions (40 marks) FOR EXAMINED USE ONLY | | | | |
| 3. Section B has 15 questions (60 marks) | | | | |

RS'

| PAGES | MARKS | SIGN |
|--------|-------|------|
| Page 1 | | |
| Page 2 | | |
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| TOTAL | | - |

6. Unnecessary alteration of work may lead to loss of marks.

4. Answer ALL questions. All answers to both section 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.

7. Any handwriting that cannot easily be read may lead to loss of marks.

8. Do not fill anything in the boxes indicated For Examiner's use only

Turn Over

P.7 MOCK

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|------|----|----------|------|-----|-----|------|
| ~ | _ | ~ | ~~ | - | N | AN . |
| 9 | - | | | 8 8 | 1 | - |
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1. Subtract:

1 7 8

- 156

6. Express 0.00423 in scientific notation.

- 2. Write XCIV in hindu arabic numerals.
- 7. Solve 3k + 4 = 10.

- 3. Calculate the greatest common divisor of 15 and 18.
- 8. Using a ruler, a pencil and a pair of compasses only, Construct an angle of 120°.
- 4. Given that set $p = \{\Box, \triangle, \bigcirc, \bigcirc\}$ set $k = \{\bigcirc, \bigcirc, \bigcirc, \triangle\}$ What is the relationship between set p and set k?
 - 9. Tell the morning time shown on the clock face below.



5. Find the value of p in the diagram.

2p / 110°

A car uses 6 litres of petrol to travel 30km. How many litres are required to travel 45km?

| 11. A boy planted 10 pegs along the circumference of a circular field at a distance of 30cm apart. Find the total distance round the circular field | |
|---|---|
| | 16. Express 3 as a percentage. |
| 12. A trader bought 20 mangoes for shs. 8000 and sold each mango at sh. 500. How much profit did he get after selling all the mangoes? | |
| | 17 Arrange: -5,+2,-3-,2 and +3 in descending order. |
| 13. A dice is tossed once. Find the probability that a prime number appears on top. | |
| | |
| 14. Convert 6000mL to litres. | 18 Simplify: (4p +k) + (K + 4p) |
| | |
| | P.7 Mathematics Mock Exam II 2024 |

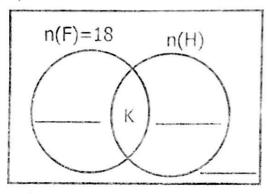
19. Work out:

| Kg | g | | |
|------|-----|--|--|
| 4 | 450 | | |
| + 20 | 750 | | |

20 Find the next number in the sequence below.

SECTION B

- 21. In a club, 18 players like football (F), (16 k) like Hockey (H) but not football while 4 players like neither of the two games.
 - a) Use the above information to complete the Venn diagram below



(3marks)

b) Find the value of K given that the number of players who don't like football is 9.

(2marks)

22. Study the figure below and use it to answer the questions that follow.

y 2m

Find the value of ;

i) y

(2marks)

| parties of the state of the sta | |
|--|----------------|
| ii) K | - 4- 2 |
| | |
| | (2-1-) |
| iii) M | (2mks) |
| | |
| | |
| | (2mks) |
| 3.a) Change 13 _{ten} to binary base . | |
| | |
| | (2mks) |
|) Give that 1111_{two} = 30p. Find the base P. | (21113) |
| | |
| | |
| | |
| | (3mks) |
| 4. Mr. Wafula went to the market with sh. 20,000 note | and bought the |
| following items. | C |
| - 2kgs of onions at sh.3000 each kg $1\frac{1}{2}$ kgs of salt at sh.4000 each kg. | |
| 10 tomatoes at sh.500 for every two tomatoes. | |
| - 500mL of cooking oil at sh. 8000 per litre. | |
| a) What was his total expenditure. | |
| | |
| | |
| | |
| | |
| | (5mks) |
| Find his change. | |
| | |
| | |
| | (1mks) |

P.7 Mathematics Mock Exam II 2024

| 25. | a) | Simplify: 1 | + | 2/5 |
|-----|----|-------------|---|-----|
|-----|----|-------------|---|-----|

(2mks)

b) In Pioneer P/S 100 pupils sat for PLE 2023.

Given that 2 of the pupils were boys and the rest were girls.

How many girls sat for PLE?

(3mks)

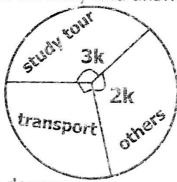
26.a) Solve for x : 2(x-2) = 6

(2mks)

b). Given that a = 2 and b = 3. Evaluate. $-a^2 - ab$

(2mks)

27. The pie chart below shows how Okumu spent his pocket money of sh. 108,000. Study it carefully and answer the questions that follow.



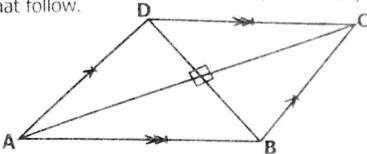
a) Find the value of K in degrees.

(3marks)

| 1 | 1 1:1 | The second secon | An including the property of t |
|---|----------------------|--|--|
| | b) How much more did | ne spend on study 7 | four than on others? |

(2marks)

28. The figure below is a Rhombus ABC where diagonal BD is 6cm and the length of each side is 5cm. Study it carefully and answer the questions that follow.



i) Calculate the length of diagonal AC.

(3marks)

ii) Calculate the area of the Rhombus ABCD.

(2marks)

29. With the help of a ruler, pencil and a pair of compasses only. Construct a triangle PUK where line PU = 6cm, angle UPK = 30° and angle PUK = 105°. Drop a perpendicular line from K to meet PU at M.(4marks)

| i) Measure KM. | |
|---|--|
| 4. | (1mark) |
| 30. In a fish factory, there are 20% workers. Given that female wo a) Calculate the total number of w | rkers are 90. |
| • | |
| | |
| | (3mks) |
| b) How many more female workers | than male workers are in the fish |
| factory? | |
| | (2mks) |
| 31. The average of K, 6, 9, 5, (ka) Find the value of K. | (+1) and 9 is 15. |
| - 1400 - 1400 | or the state of th |
| | (3mks) |
| b) Find the median of the numbers | · 20* |
| | |
| | (2mks) |
| 32. Johnny left town A to town B dri drove back at a speed of 90km/h A and town B given that the tota | ving at a speed of 60km/hr. He then in. Calculate the distance between town I time taken was 5 hours. (4mks) |
| | • |