



Tekart Learning

END OF TERM III EXAMINATIONS 2023

PRIMARY SIX

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

Name _____ Stream _____

School _____

District _____

Read the following instructions carefully.

1. This paper is made up of two Sections: A and B. Section A has 20 questions (40 mark and Section B has 12 questions (60 marks).
2. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
4. Crossing out of answers will lead to loss of marks.
5. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINERS USE ONLY

| QN. NO. | MARK | SIGN |
|---------|------|------|
| Page 2 | | |
| Page 3 | | |
| Page 4 | | |
| Page 5 | | |
| Page 6 | | |
| Page 7 | | |
| Page 8 | | |
| Page 9 | | |
| Page 10 | | |
| TOTAL | | |

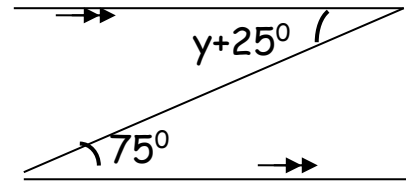


SECTION A (20 QUESTIONS - 40 MARKS)

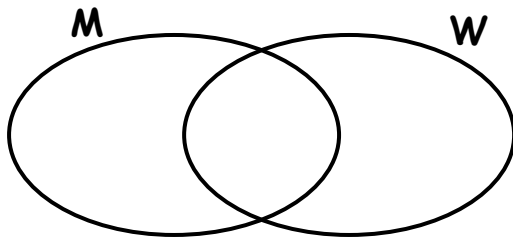
| | |
|---|--|
| 1. Write 426 in words. | 2. Write 43 in Roman Numerals. |
| 3. Find the unknown index in; $2^{x+1}=8$ | 4. One Us dollar (\$) is equivalent to Ush. 3450. How many dollars can you get from Ush. 17,250? |
| 5. With the help of a pencil, ruler and pair of compasses, construct an angle of 45° | 6. Find the missing two numbers in the sequence. 2, 4, 7, 11, ____, ____ |

7. The temperature of a pawpaw was measured as 15°C . When the pawpaw was put in the refrigerator, the temperature dropped by 9°C . Find the new temperature of the pawpaw.

8. Study the diagram below and find the value of y in degrees.



9. Shade set W on the venn diagram below.

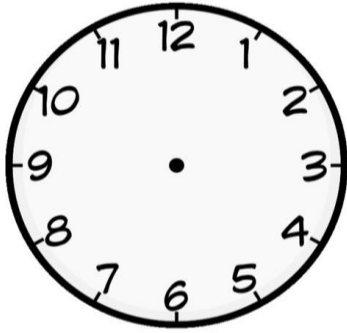


10. Write 1269 in standard form.

11. Four fountain pens cost shs. 10,000. How many similar fountain pens can one buy with shs. 7500?

12. Write $0.2424\ldots$ as a recurring decimal.

13. Show 9:30 on the clock face below.



14. Convert 108km/hr to m/s.

15. Solve the inequality;
 $2x - 2 \geq 6$

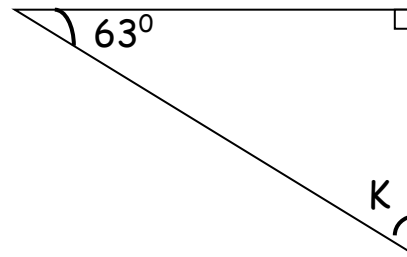
16. Expand 438 using values.

17. Betty bought a dress at shs. 6,000 and sold it at shs. 7200. Calculate percentage profit.

18. Change 1200cm³ to litres.

19. Express 1 hour as a ratio to 40 minutes.

20. Find the value of K in degrees.



SECTION B (12 QUESTIONS - 60 MARKS)

21. (a) Match correctly.

One hundred nineteen

123_4

Twenty eight

119

Two thousand seventy

28

One two three base four

2070

(4 marks)

22. The table below shows marks scored by P.6 pupils in a mathematics test.

| | | | | | |
|------------------|----|----|----|----|----|
| Marks | 60 | 30 | 40 | 80 | 90 |
| Number of pupils | 2 | 1 | 2 | 3 | 2 |

(a) How many pupils did the test?

(2 marks)

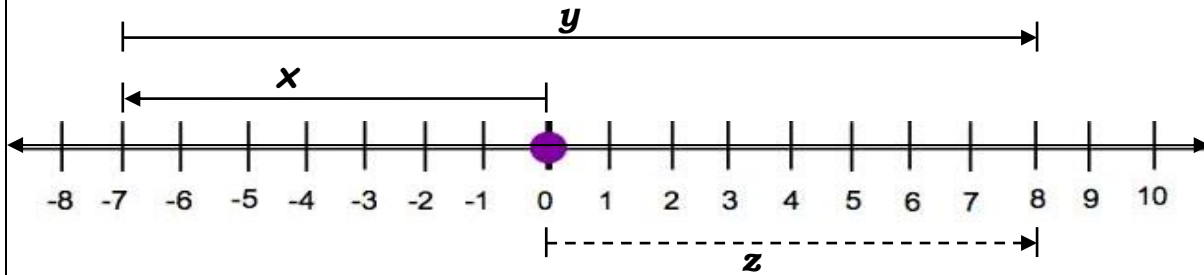
(b) What is the modal mark?

(1 mark)

(c) Calculate the mean mark.

(3
marks)

23. Use the number line below to answer questions that follow.



(i) Write the integer represented by each arrow.

(3
marks)

(a) $x =$ _____ (b) $y =$ _____ (c) $z =$ _____

(ii) Write the addition mathematical statement shown above.

(2
marks)

24. Complete the shopping bill below.

| Item | Quantity | Unit Cost | Total Cost |
|-------------------|------------|------------|------------|
| Sugar | 3kgs | Shs. 3,200 | Shs. ----- |
| Soap | ----- bars | Shs. 2,800 | Shs. 5,600 |
| Meat | 2kgs | Shs. 8,000 | Shs. ----- |
| TOTAL EXPENDITURE | | | Shs. ----- |

(4 marks)

25. (a) With the help of a sharp pencil, ruler, and pair of compasses, construct a triangle PQR where line QR = 6cm, angle PQR = 90° , and angle QRP = 30° ,

(4 marks)

(b) Measure line PQ -----

(1 mark)

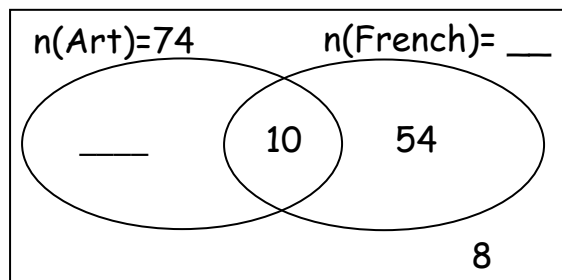
| | |
|--|------------------|
| <p>26. The sum of three consecutive whole numbers is 15. (a) Find the actual numbers.</p> | <p>(4 marks)</p> |
| <p>(b) Find their range</p> | <p>(1 mark)</p> |
| <p>27. (a) Simplify; $\frac{3.6 \times 6.4}{0.024 \times 1.2}$</p> | <p>(3 marks)</p> |

(b) Apply BODMAS to work out;

$$\frac{5}{6} - \frac{3}{4} \div 1\frac{1}{2}$$

(2
marks)

28. The venn diagram below shows the number of pupils who attended lessons in different subjects in a week.

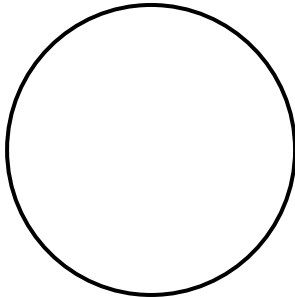


a) Complete the above venn diagram.

(2
marks)

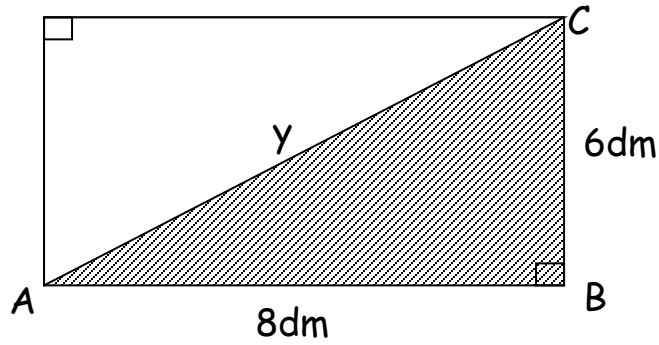
b) How many pupils are in that class altogether?

(2
marks)

| | |
|---|------------------|
| <p>29. (a) Amanda has shs. 20,000. She wants to buy a toy that costs shs. 5,000. What fraction of her money will remain after buying the toy?</p> | <p>(3 marks)</p> |
| <p>(b) What fraction of her money would she use if she bought two toys?</p> | <p>(2 marks)</p> |
| <p>30. The circle drawn below has a diameter of 14cm. (not drawn on scale)</p>  <p>(a) Find its circumference.</p> | <p>(3 marks)</p> |

| | |
|--|------------------|
| <p>(b) Calculate the area of the circle above.</p> | <p>(3 marks)</p> |
| <p>31. (a) Convert 23_{five} to base eight.</p> | <p>(3 marks)</p> |
| <p>(b) Find the unknown base in; $104_n = 29_{\text{ten}}$</p> | <p>(3 marks)</p> |

32. Study the geometric shape below and answer the questions that follow.



(a) Find the measurement of line AC.

(3 marks)

(b) Work out the perimeter of the shaded figure.

(2 marks)

THE END