

INTENSIVE CARE SCHOOLS WANDI

P. 6 Beginning Of Term II Examination 2024

Mathematics
Time: 2 hours 30 minutes

NAME: _____

Read the following instructions carefully:

1. This paper is made up of section A and B.
2. Section A has 20 short answer questions (40 marks).
3. Section B has 12 questions (60 marks).
4. All answers to both section A and B must be written in the spaces provided.
5. All answers must be written in blue ink and diagrams should be drawn in pencil.
6. Any handwriting that cannot easily be read will lead to loss of marks.
7. Unnecessary alteration of work may lead to loss of marks.
8. No calculators are allowed in the examination room.

FOR EXAMINER'S USE ONLY

| | |
|-------|--|
| A | |
| B | |
| TOTAL | |


SECTION A:(40 Marks)

1. Work out: $27 \div 9 =$

2. Write in figures "seven hundred four thousand ninety" in figures.

3. Simplify: $-8 + +5$

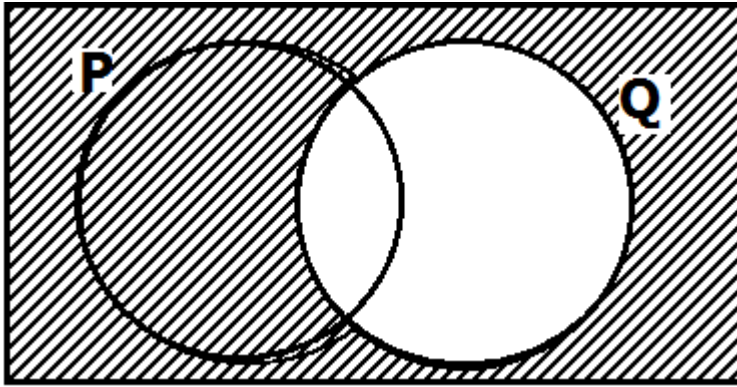
4. Solve: $x - 4 \geq 3$

5. Given that  represents 20 trees, how many trees are represented below?



6. A fifty-five minute lesson ended at 9:05 a.m. When did it start?

7. Describe the shaded region in the Venn diagram below.



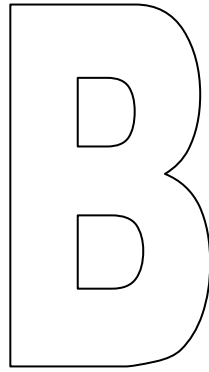
8. Work out: $1 \frac{1}{4} - \frac{1}{3}$

9. 6 cups cost sh. 5400. How many cups will one buy for sh. 10,800?

10. Find the next number in the sequence: 3, 13, 7, 17, 11, _____.

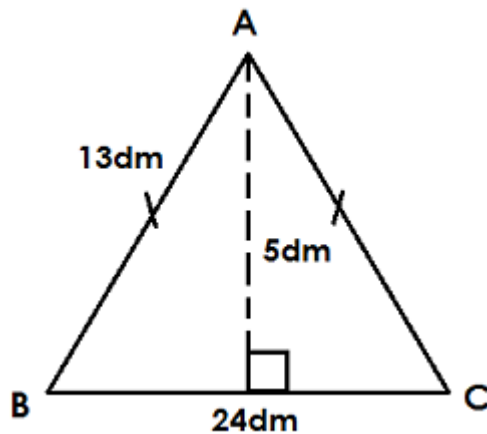
11. Using a ruler, a pencil and a pair of compasses only, construct an angle of 120° in the space provided below.
12. Write 598 in Roman numerals.
13. Set $Q = \{c, e, A, T\}$ how many subsets are in set Q?
14. A shopkeeper bought 16 litres of cooking oil and packed it in sackets each of $\frac{1}{4}$ a litre. How many sackets did the shopkeeper get?

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



16. What must be added to $2x - 3$ to get $5x - 7$?

17. Calculate the area of triangle ABC.



18. Change $1 \frac{1}{4}$ hours to minutes.

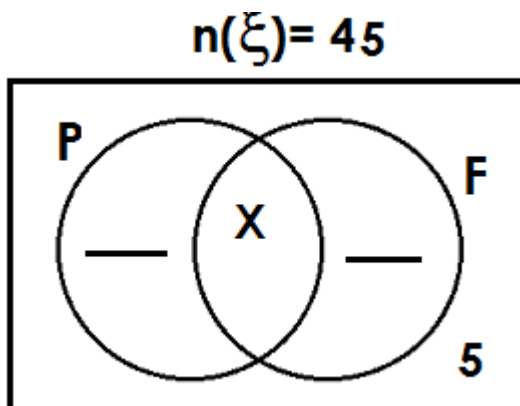
19. Work out : $20 - 18 \div 2$

20. How many grams are in $\frac{13}{20}$ Kg?

Section B: (60 marks)

21. In a class of 45 pupils, 28 drink Pepsi (P), 30 drink Fanta (F), X drink both and 5 drink neither of the two.

(a) Complete the figure below. **(2 marks)**



(b) Find the value of X. **(2 marks)**

(c) How many pupils drink only one type of drink. **(2 marks)**

22(a) What is the difference between the place values of 6 and the value of 5 in 796051? **(3 marks)**

(b) Express 47 in base five. **(2 marks)**

23. Aunt Nakaweesi went shopping and bought the following items:

28 oranges at sh. 2500 for every 7 oranges.

2 $\frac{1}{4}$ kg of cassava flour at sh. 2800 per kg

500gms of sugar at sh. 4800 per kg.

(a) Calculate her total expenditure. **(4 marks)**

(b) If aunt Nakaweesi went shopping with sh. 25,000, find her change. **(1 mark)**

24. A school hired 12 coasters and 8 buses for a tour. Each coaster carried 35 pupils while each bus carried 64 pupils. How many pupils went for the tour? **(5 marks)**

25. The marks below were scored by a pupil in an examination: **85 , 40 , 85 , 80 , 60, 90 and 50.**

(a) Find the mode. **(2 marks)**

(b) Work out the median mark. **(2 marks)**

(c) Calculate the mean mark. **(2 marks)**

26. Solve the following equations:

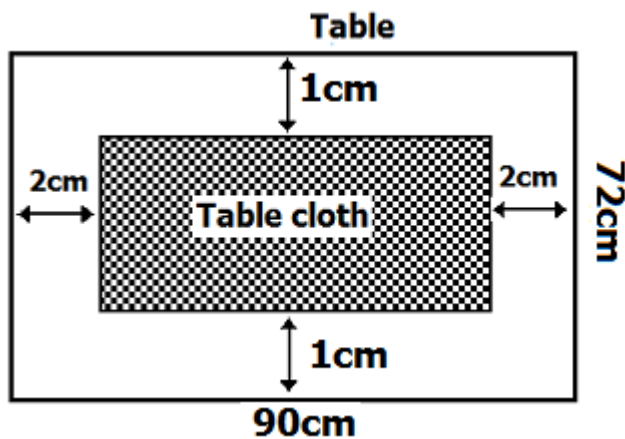
(a) $5(n - 2) = 10$

(3 marks)

(b). $2(4p - 1) + 5(3 - p) = 19$

(3 marks)

27. A tablecloth was placed on the table as shown below.



(a) Find:

(i) the length of the table cloth.

(1 mark)

(ii) the width of the table cloth.

(1 mark)

(b) Work out the area of the table that is not covered with the table cloth. **(3 marks)**

28. Jamil left Kampala driving at 80 Km/hr and arrived at Mbarara $2\frac{1}{2}$ hours later.

(a) How far is Mbarara from Kampala? **(2 marks)**

(b) Find the the time he would take if he was driving at 100 Km/hr. **(2 marks)**

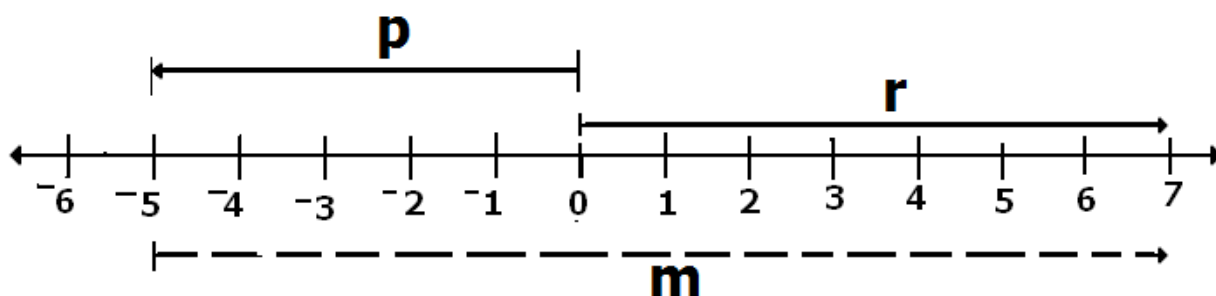
29. In a village of 800 people, $\frac{2}{5}$ of them are women, $\frac{1}{4}$ are men and the rest are children.

(a) Find the fraction of the adults in the village. **(2 marks)**

(b) How many children are in the village.

(3 marks)

30. Study the numberline below and use it to answer questions that follow.



(a) Write shown integers represented by letters;

(1 mark each)

(i) m: _____ (ii) p _____

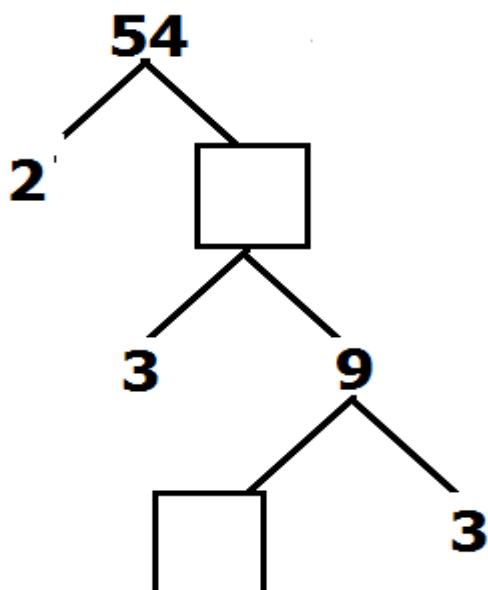
(iii) r _____

(b) Write the mathematical statement shown on the number line.

(1 mark)

31(a) Complete the factor tree below.

(2 marks)

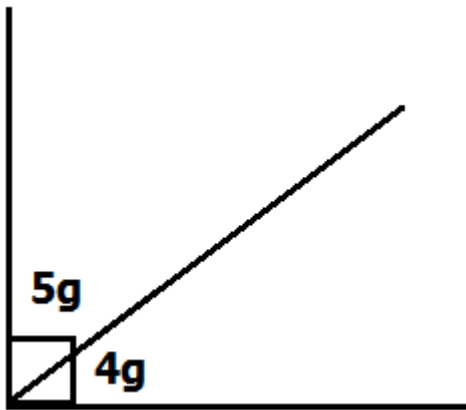


(b) Find the product of the 3rd and 6th prime numbers.

(3 marks)

32(a) Work out the value of g in the figure below.

(2 marks)



(b) Find the value of m in the figure below.

