

## BUKEDDE PRE-PLE EXAMINATION 2024 MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	

	Random No	Personal No		
207				

Candidate's Name	 	 
Candidate's Signature	 	 
School Random Number	 	 
District Random Number		and the second

Read the following Instructions carefully:

- The paper has two sections; A and B.
   Section A has 20 questions and section B has 12 questions.
- 2. Answer all questions. All answers to both Section A and B must be written in the spaces provided,
- 3. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 4. Unnecessary changes in your work may lead to loss of marks.

## SCORES

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Qn No	Marks	
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21	3-17	
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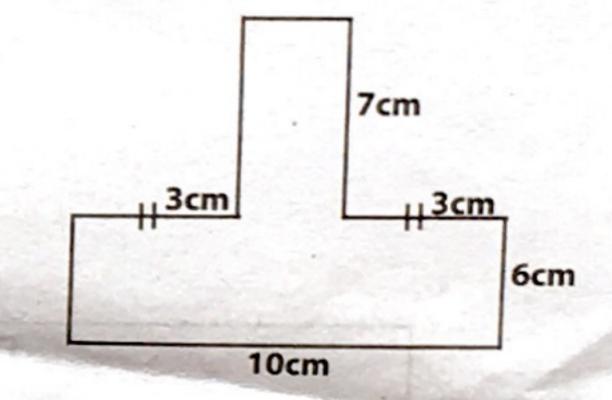
## SECTION A

1. Multiply: 23 x 0

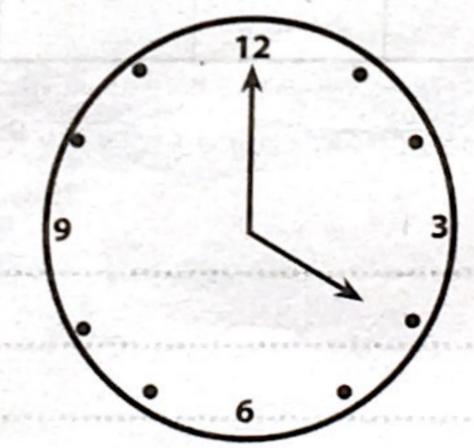
- 8. Construct an angle of 45° in the space below.
  Use a ruler and a pair of compasses only.
- 11. Given that;
- A = {All square numbers between 1 and 25}
- B = {All factors of 12}, find n(A-B)

- 2. Write in numerals "Forty-five thousand, forty".
  - ACTUAL TOWNS
- 3. Simplify: -6 <sup>-</sup>4

- COTAMBILIAN
- 12. The figure below shows a flower garden. Study it and find its perimeter.



- 4. Find the missing number in the sequence below:
  \_\_\_\_\_, 20, 16, 13, 11, 10.
- 9. A fifty-minute lesson in the afternoon ended at the time shown below. At what time did it start?



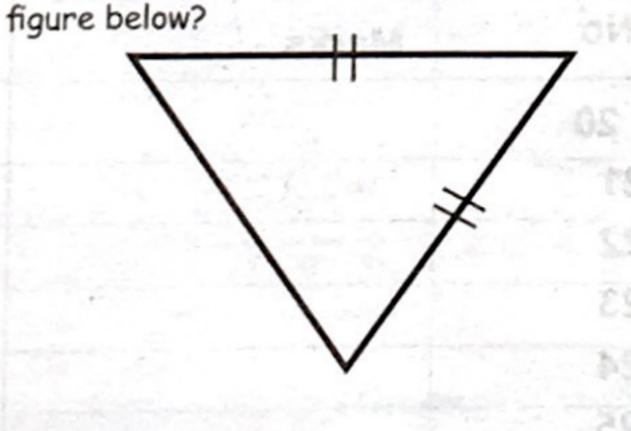
13.  $(3x - 25)^0$  is a supplementary angle of  $2x^0$ . Calculate the value of x.

paper has byto sections; A and E

6. How many lines of folding symmetry has the

5. Given that p = 5, q = 0 and r = 3,

find the value of pq + pr



- 10. Mbadi exchanged US\$550 for Ug shs 2117,500. Work out the exchange rate.
- 14. Mr. Makada withdrew 100 ten thousand-shilling notes numbered consecutively up to AP534300. Find the registration of the first note.

gat, Diagrams should be drawn in penci

7. Write CDV in Hindu Arabic.

All answers must be ventren using a blue or black ball point pen of

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Unnocessary changes in your work may lead to loss of marks.

15. If  $2^{t} \times 3^{2} = 144$ , find the value of t.

17. Find the size of each exterior angle of a regular nonagon.

19. Work out: 5 - 3 6 4

16. The average weight of 4 animals: a cow, a bull, a bullock and a heifer is 120kg. A cow weighs 100kg and bull weighs 130kg. Calculate the weight of a heifer if a bullock is as heavy as a heifer.

18. The figure below is a rhombus. AB=20cm and diagonal AC =32cm. Calculate the length of diagonal BD.

20. Magret counted the number of girls in a P.7 class. She recorded then using tallies as shown below.



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How many girls did she count?

## SECTION B

a) Calculate the condcity of the tonk

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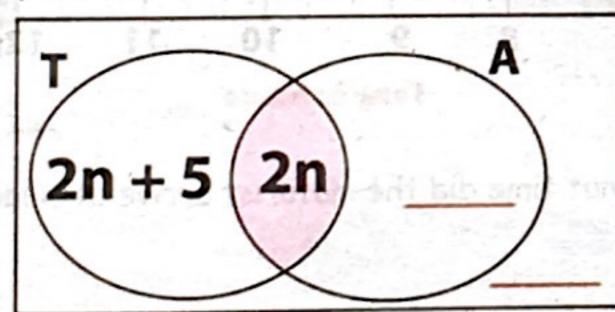
21. A primary seven class of 56 pupils voted for Tom (T) and Alice (A) as follows.

SE The gruph below shows white SE

from village Z to village X via village Y.

(2n + 5) pupils voted Tom only, (3n - 15) pupils voted Alice only and 2n pupils voted for both Tom and Alice while the number of pupils who did not vote for any of the two candidates is twice the number of those who voted for both candidates.

a) Complete the Venn diagram below.



b) Find the value of n.

c) How many pupils voted for only one candidate?

22. The digits 4, 0, 6 are used to form a 3-digit numeral using each digit once.

a) Write down all numerals formed.

b) Express the largest numeral in scientific notation.

23. A vender bought 30 apples at sh. 1500 each.

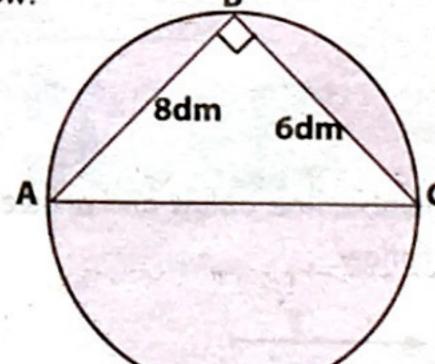
If 5 apples got spoilt and she sold the remaining apples making a profit of sh.5000, at what price did she sell each apple?

A mother a thrice as old as her sen The prod-

24. The figure below shows a triangle inside a circle. Study it carefully and answer the questions that follow.

B

e natio of girls to males in the wil-



a) Calculate the area of the triangle.

b) Work out out the area of the shaded part.

a) Write down the integers représented by introus

by Wester the mathematical statements operanded

25. The sum of 3 consecutive even number is 48. If the largest is k,

a) Find these numbers.

b) Express the sum of these numbers a product of

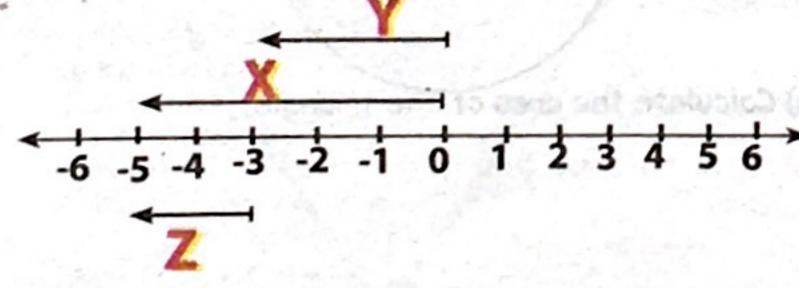
its prime factors.

26. There are 2700 people in a village. 60% of them are males and 35% of the females are girls.

a) Find the number of males in the village.

b) Workout the ratio of girls to males in the village.

27. Study the numberline below and answer the questions that follow.



a) Write down the integers represented by arrows

b) Write the mathematical statement represented by arrows on the numberline.

28. a) Using a ruler and a pair of compasses only, construct a triangle PQR, where

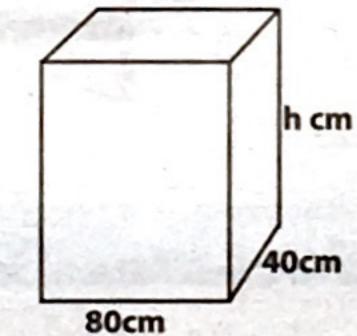
PQ = QR = PR = 6.0cm.

b) Bisect angles PQR and QPR and let the bisectors meet at point O. measure angle PQR.

13. The figure below is a rhombus. AB=20cm and

dissonal AC = 32 cm. Calculate the langth of disgo.

29. A tap takes 4 hours to fill the tank below at a rate of 40 litres per hour.



a) Calculate the capacity of the tank.

b) Find the height of the box.

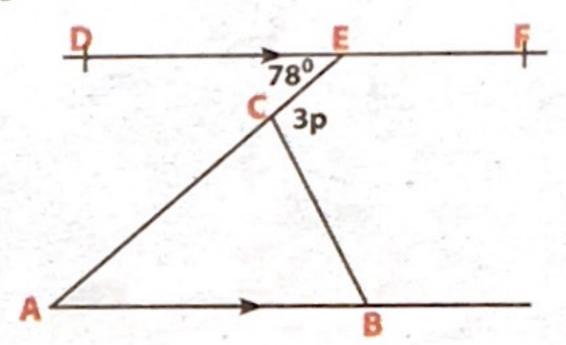
30. a) Subtract 3m - 2k from 5k - 8km.

b) A mother is thrice as old as her son. The product of their ages is 192. How old is the mother?

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31. In the figure below, AB is parallel to line DF.

Angle BAC = angle ABC.



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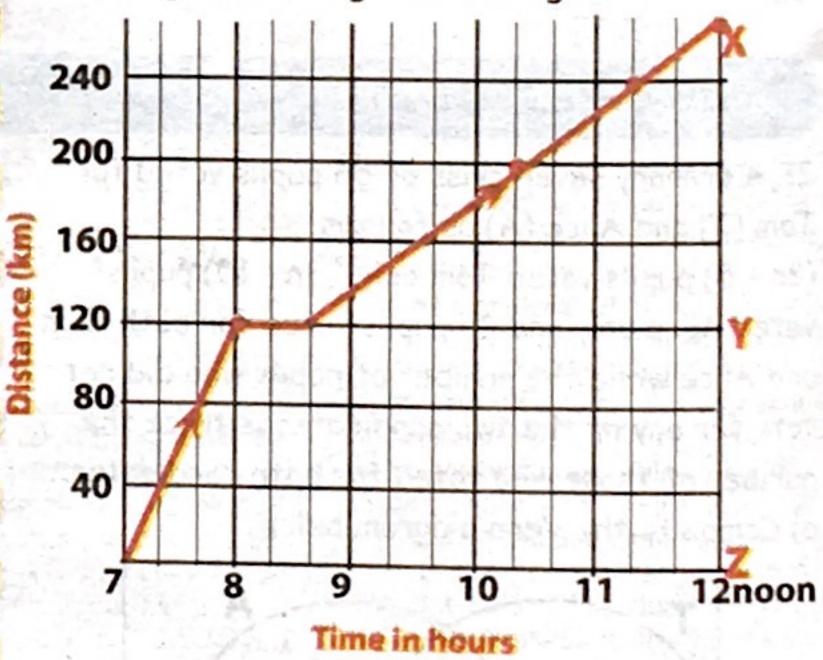
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a) Find the value of P in degrees.

b) Work out the size of angle ACB.

32. The graph below shows a motorist journey from village Z to village X via village Y.



(a) At what time did the motorist arrive at village y?

b) For how long did the motorist rest at village y?

c) How far is village Z from village Y?

d) Calculate the average speed of the motorist for the whole journey.