

ARALL EXAMINATION BOARD[AEB]

P.7 SPECIAL SET 5 OF 10 2025

MATHEMATICS

Time allowed ;2hrs:30min

NAME:.....

SECTION A (40 MARKS)

1. Multiply 2×0.5

2. Express 145 in Roman Numerals.

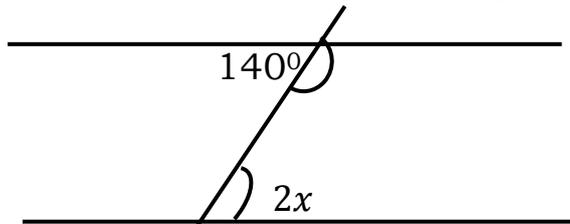
3. Given that set $K = \{2,3,4,5,6\}$ and set $L = \{9,7,2,3\}$
Find $n(K \cap L)$.

4. Find the place value of 9 in the number 4.93.

5. simplify $6m + 2x - m - x$

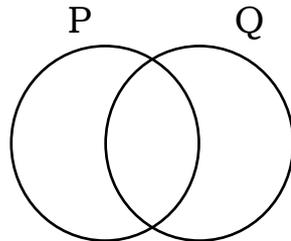
6. Workout the mean of 9,7,12 and 8.

7. Workout the value of x in the figure below.



8. Multiply $\frac{3}{4} \times \frac{1}{2}$

9. Shade the region $p - q$



10. Express 3:45pm to 24 hour clock system.

11. Increase sh. 12000 in the ratio of 3:2.

12. A coin is tossed once, what is the probability that the head will appear on top?

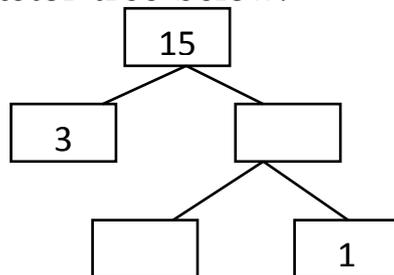
13. Workout: 111_{two}

$$\begin{array}{r} 111_{\text{two}} \\ + 11_{\text{two}} \\ \hline \end{array}$$

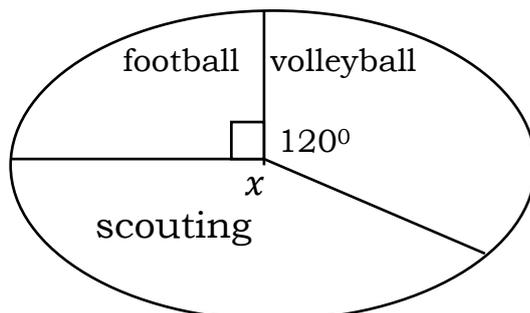
14. Calculate the distance around a circular flower garden whose diameter is 70m ($\pi = \frac{22}{7}$)

15. If  represents 10 oranges and  represents 5 oranges. Find the number of oranges represented by     

16. Complete the factor tree below.



Study the pie chart below.



17. Find the value of x in degrees.

18. Round off 9.46 to the nearest tenths.

19. Ian travelled for 80km in 2hrs.calculate his average speed in km/hr.

20 Use associative property to workout: $(7 \times 8) \times 6$.

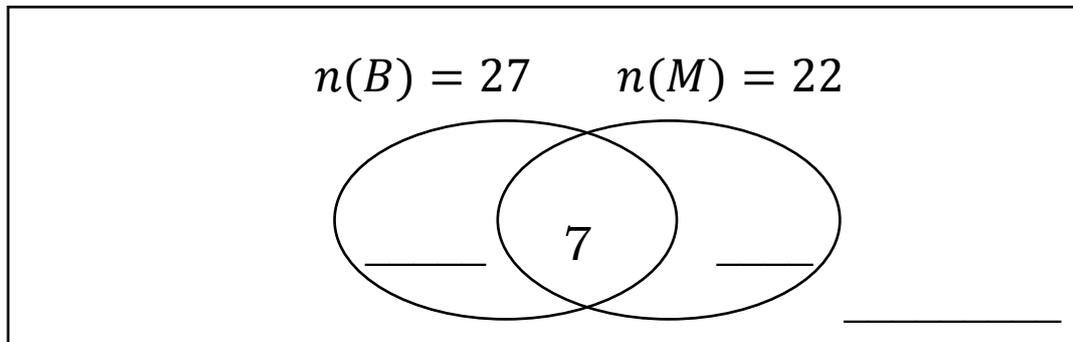
SECTION B (60 marks)

21. In a group of 50 traders, 27 sell beans (B), 22 sell; maize (M) and 7 sell both maize and beans while 8 did not sell any of the two.

a) Complete the venn diagram below.

$N(\epsilon) = 50$

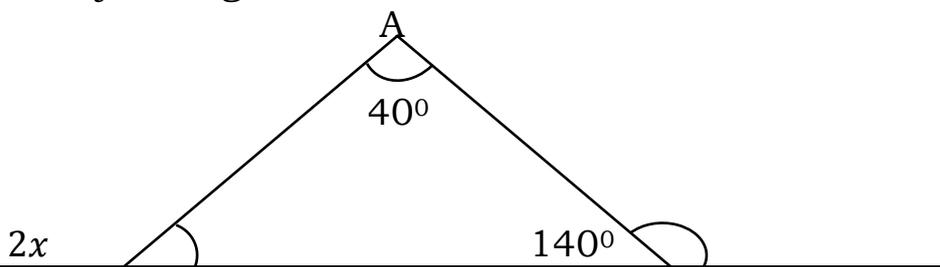
(3 marks)



b) How many trader sell only one type of item.

(2 marks)

22. Study the figure below.



B

C

D

a) Find the value of x in degrees.

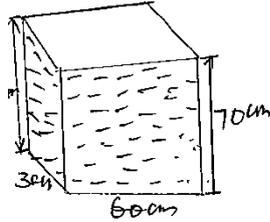
(3 marks)

b) Calculate the size of angle ACB.

(2 marks)

23. Study the figure below.

a) Find the base of the tank. (2 marks)



b) How many litres of water in the tank?

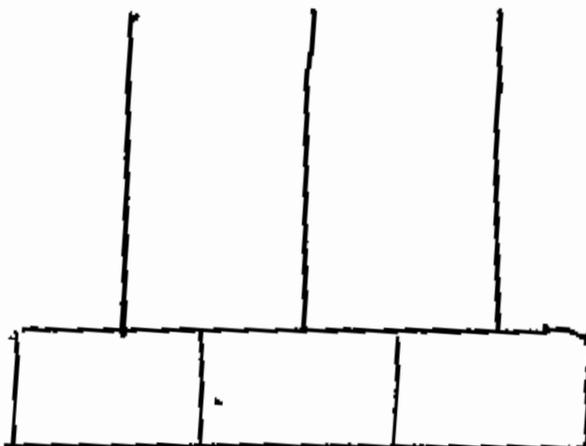
(3 marks)

24. a) Write 234_{five} in words.

(1 mark)

b) Represent 213_{five} on the abacus below.

(2 marks)



c) Change 101_{two} to base ten.

(2 marks)

25. Nalubegawent to the market and bought the following items.
 2kgs of beans at sh. 1200 per kg.
 $2\frac{1}{2}$ kgs of soya at sh. 4000 @

500g of flour at sh. 4000 per kg.

4 bars of soap at sh. 6000.

a) Calculate her total expenditure.

(4 marks)

b) If she went with sh. 21000. Find her change.

(1 mark)

26.

a) Simplify : $\frac{0.8 \times 0.12}{0.06}$

(3 marks)

b) Change $\frac{3}{5}$ in to decimals.

(2 marks)

27.

a) Expand 1438

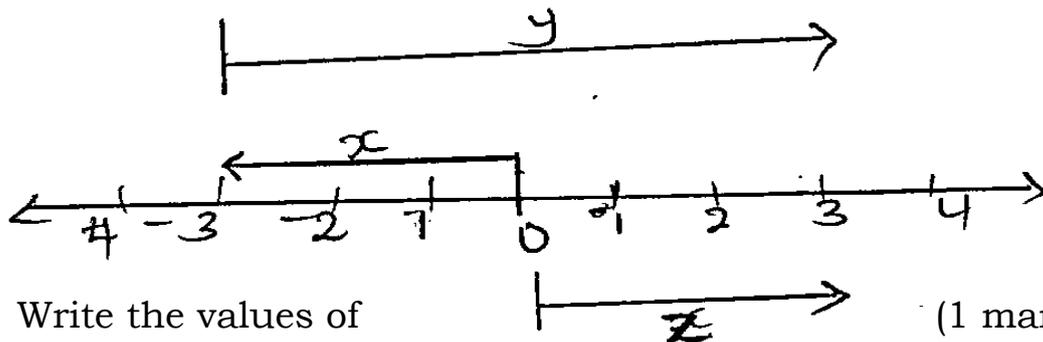
(2 marks)

b) Find the sum of the values of 3 and value of 4 in the number 7349.

(3 marks)

Study the number line below.

28.



a) Write the values of

- i. X: _____
- ii. Y: _____
- iii. Z: _____

(1 mark each)

b) Write the mathematical statement shown above.

(2 marks)

29.

The table below shows the mean mark scored by candidates in end of September test.

Marks scored	80	50	40	70	60
Number of pupils	1	2	4	1	2

a) How many pupils may have done the test?

(1 mark)

b) Find the median mark

(2 marks)

c) Calculate the average mark of the candidates.

(2 marks)

30.

The sum of the 3 consecutive counting numbers is 81.

a) What are the numbers?

(4 marks)

b) Find the range of the numbers.

(1 mark)

31. In a certain farm, the ratio of cows to goats to sheep is 4:1:5 respectively. If the farm has 300 animals.

a) Find the number of goats in the farm.

(1 mark)

b) How many more sheep than cows are there in the farm?

(3marks)

c) What percentage of animals are cows.

(1 mark)

32.

a) On the graph below , plot points A(-2,+2), B(+3,+2), C(+3,-2), D(-2,+2)

b) Join A to B, B to C, C to D and D to C

c) Name the figure formed.

