

ARALL EXAMINATION BOARD [AEB]
NATIONAL MOCK EXAMINATIONS SET TWO
P.7 MATHEMATICS

Time allowed: 2 Hours 30 minutes

Candidate's Name:

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SECTION A (2 MARKS EACH)

1. Multiply: 78×2

2. Simplify: $6t - 5x + 2t$

3. What is 18_{ten} in base five?

4. Expand 1874 using powers of ten.

5. Simplify: $\frac{3}{4} + \frac{1}{6}$

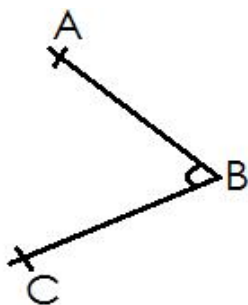
6. Work out: $3 - 6 = \dots\dots$ (finite 7)

7. Find the number of sides of a regular polygon whose interior angle is 144° .

8. Simplify: $6m - (4 + 2m)$

9. The mean of 6, 0, 7 and n is 4. Find the value of n .

10. Use a pair of compasses, a pencil and a ruler only to bisect the given angle below.

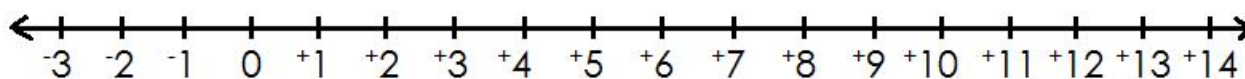


11. A bank manager gave a bundle of two thousand shilling notes numbered from AK 2842868 to AK 2842977 consecutively. How much money was given out?

12. Change 72km/hr to m/sec.

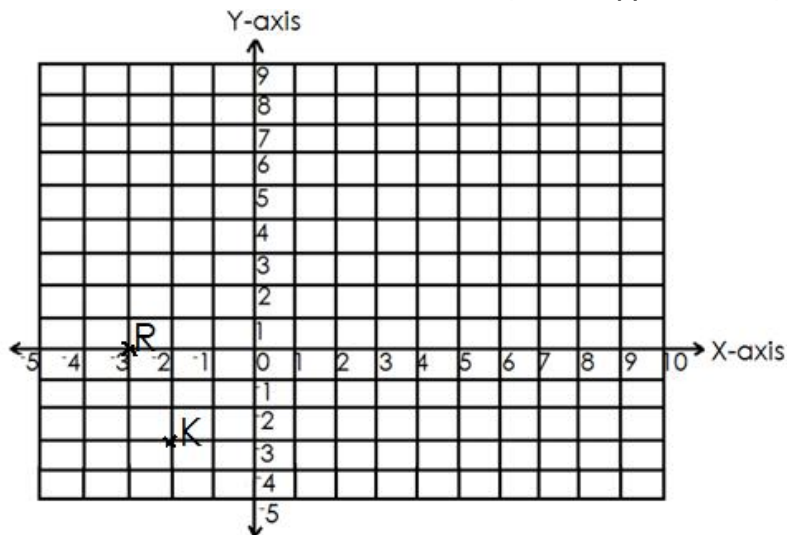
13. Write 0.00362 in scientific notation.

14. Multiply $+4 \times 3$ while using a number line below.



15. Zaina is 4 times as old as Shirat. If their total age is 30 years. How old is Kabuzi.

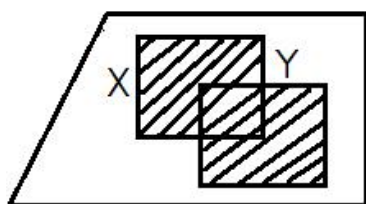
16. Write the co-ordinates of point (i) R and point (ii) K



i) R =

ii) K =

17. Describe the unshaded part.



18. If today is Friday, what day of the week was it before 73 days ago?

19. Use distributive property to work out $(100 \times 3.6) + (100 \times 1.2)$

20. The G.C.F of the two numbers is 6. The LCM of the two numbers is 60. If one of the numbers is 30. Find the other number.

SECTION B

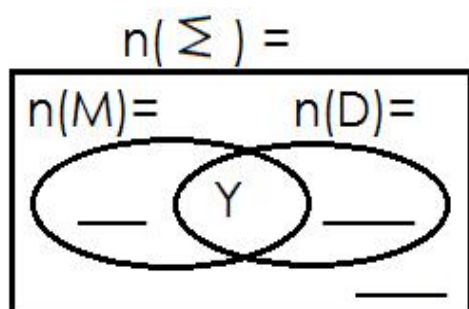
21(a) Development Bank offers a simple interest rate of 12% p.a. Find the interest got from principal of shs.400,000 after 8 months.

b) Simplify: $\frac{0.48 \times 1.8}{0.06 \times 9}$

c) Work out: $\frac{2}{3} \text{ of } 9 - 8 \div 4$

22. A group of 68 members. 38 like Music (M), 30 members like Drama (D), 4 like neither of the two activities and y like both activities.

a) Use the above information to complete the Venn diagram below.



b) Find the value of Y.

c) How many members like only one activity?

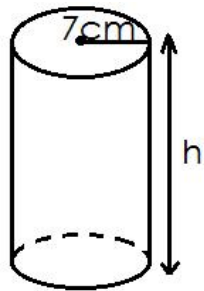
(6mks)

23(a) Convert 234_{five} to base six.

b) Given that $34_Y = 103_{\text{four}}$. Find the unknown base.

(5mks)

24. A cylindrical tank below contains 154 litres full of water.



a) Calculate the height of the cylindrical tank.

b) If the tank is $\frac{3}{4}$ full of water, how much water will be in the tank above?

25. Ssekyanzi bought the following from Umoja supermarket.

(6mks)

a) Complete the table.

ITEM	QUANTITY	PRICE PER COST	TOTAL AMOUNT
Yorghut	litres	Shs.2,400 per litre	Shs.7200
Meat	750gm	Shs.18,000 per kg	Shs.
Biscuits	6 packets	Shs.3000 every 2 packets	Shs.
Milk	$2\frac{1}{2}$ litres	per litre	Shs.6,000
TOTAL EXPENDITURE			Shs.

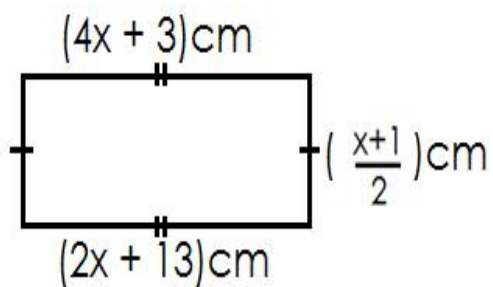
b) If Ssekyanzi was given a discount of 15%., how much money did he pay for the items?
(6mks)

26. Mubiru, Shallom and Ibrahim shared a certain sum of money in the ratio of 3:4:5 respectively. If Ibrahim got shs.48000, how much money did they share altogether? (5mks)

27. ABCD is a rectangular school garden.

a) Find the value of x.

(2mks)



b) Calculate the perimeter of the rectangular garden.

(3mks)

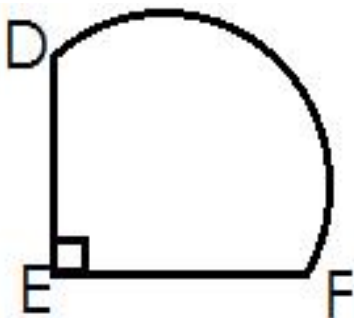
28. Using a pair of compasses, a pencil and a ruler only, construct a triangle PQR in which $\overline{PQ} = 7\text{cm}$, angle QPR = 60° and angle PQR = 45° . Drop a perpendicular line from R to meet line PQ at point T.

b) Use RT as the height, and find the area of the triangle PRQ. (5mks)

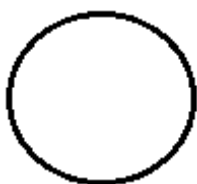
29(a) In Arall Examination Mock results were as follows, $\frac{1}{4}$ of Sun Rise Junior candidates got division one, $\frac{1}{3}$ of Desire Junior School got division two and the rest from Global Parents got division three. If 120 candidates in Global Parents got division three, how many candidates were there in the three schools?

b) How many more candidates were in Desire Junior School than in Sun Rise Junior School? (4mks)

30. DEF is a quadrant of centre E and the Radius of a quadrant is 21cm.
a) Find the distance around the figure. (3mks)



b) How many lines of symmetry have the diagram below? (1mk)

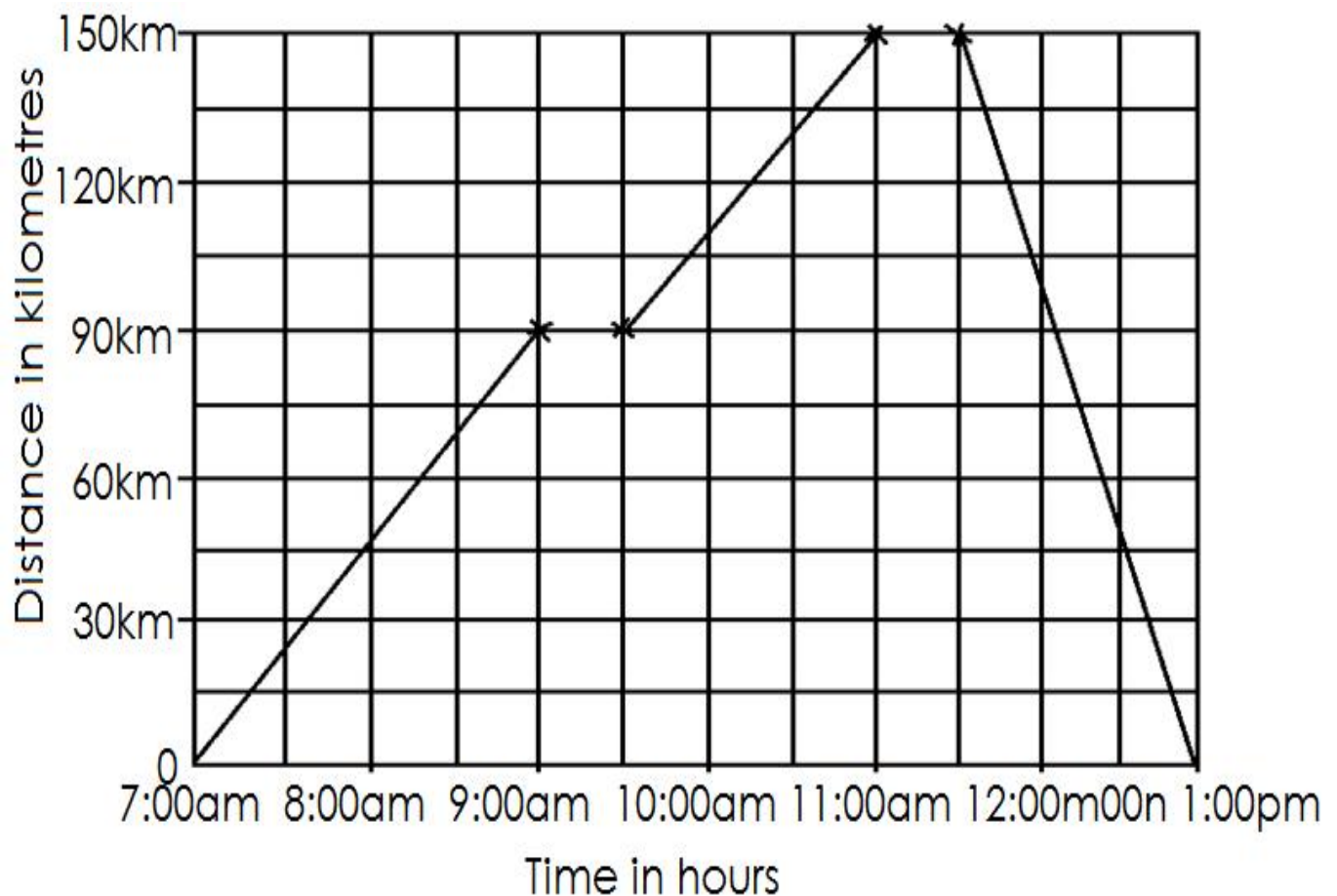


31(a) What number has been expanded?
 $(8 \times 10^3) + (6 \times 10^0) + (7 \times 10^{-1}) + (5 \times 10^1)$

b) Find the next number in the sequence 1, 8, 27, 64, _____, _____

c) Write $\frac{3}{8}$ as a decimal number?
(5mks)

32. Yusuf drove from Kampala to Masindi via Mubende.



- | | |
|--|--------|
| a) How many hours did Yusuf rest? | (1mk) |
| b) At what time did he reach Mubende? | (1mk) |
| c) Find the average speed for the whole journey. | (3mks) |

*******GOD BLESS*******