

UGANDA NATIONAL PRIVATE SCHOOLS EXAMINATIONS

PRE MOCK SET II EXAMINATIONS 2022

PRIMARY SEVEN

MATHEMATICS

Time allowed 2hrs 30 minutes

INDEX No.

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Name: _____ Stream: _____

School: _____

District Name: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully:

1. This paper is made up of two Sections A and B.
2. Section A has 20 questions (40mks)
3. Section B has 12 questions (60 marks)
4. Answer ALL questions. All answers for both sections A and B must be written in the spaces provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn using a pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated for Examiners' use.

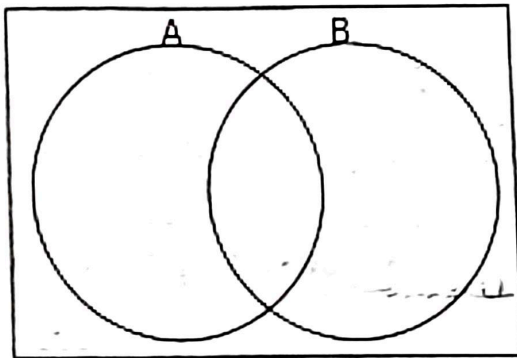
FOR EXAMINERS'
USE ONLY

QN. No.	MARKS	SIGN
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 23		
24 - 26		
27 - 29		
30 - 32		

SECTION A (40Mks)

1. Work out: $18 + 6$

2. Shade $(A \cup B)^c$



3. A pupil scored the following marks in mathematics test.

46, 71, 30, 65, 40, 50, 69

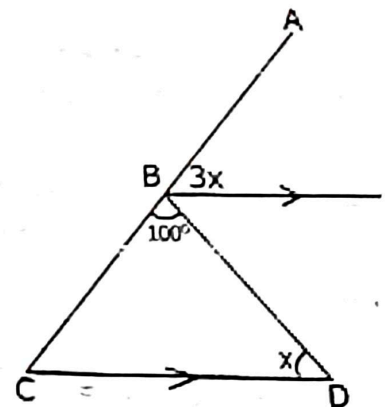
Find the median mark.

4. Subtract: $\frac{5}{6} - \frac{1}{4}$

5. Find the square root of $7\frac{1}{9}$

6. Write 12:15am in 24 hour clock.

7. In the figure below, angle $\angle ABE = 3x$, $\angle CBD = 100^\circ$, $\angle CDB = x$. Line BE is parallel to line CD as shown below. Study it and find the value of x .



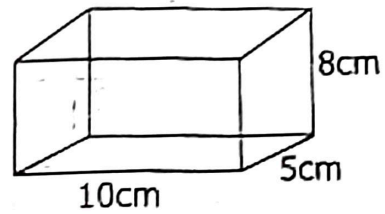
8. Solve for the inequality.

$$3 - 2x < 15$$

9. In a basket, there 8 green balls and 6 red balls. What is the probability of picking a green ball from the basket at random?

10. Work out: $10_{\text{two}} + 11_{\text{two}}$

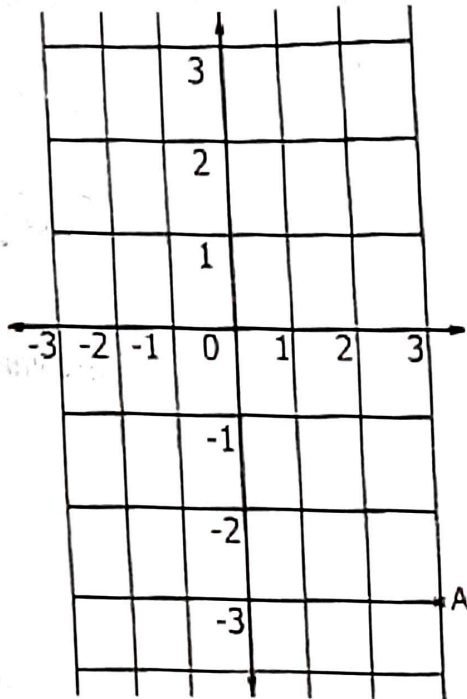
11. The figure below shows a cuboid whose edges are made of metal wire.



Find the length of the wire needed to make the cuboid.

12. Subtract: $4.06 - 2.9$

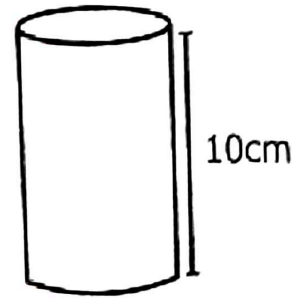
13. Use the grid below to find the coordinates of point A.



14. Express 25 metres per second as kilometres per hour.

15. Kaggwa had 240 litres of milk, 30% of it was sold. How much milk remained.

16. The diagram below shows a cylinder of radius 7cm.



Find the volume of the cylinder.

17. The bearing of T from R is 050° use a diagram to find the bearing of R from T.

18. Find the next two in the sequence
81, 27, 9, _____

19. John shared 4200kg between his sons in the ratio of 2:5. Find the largest share.

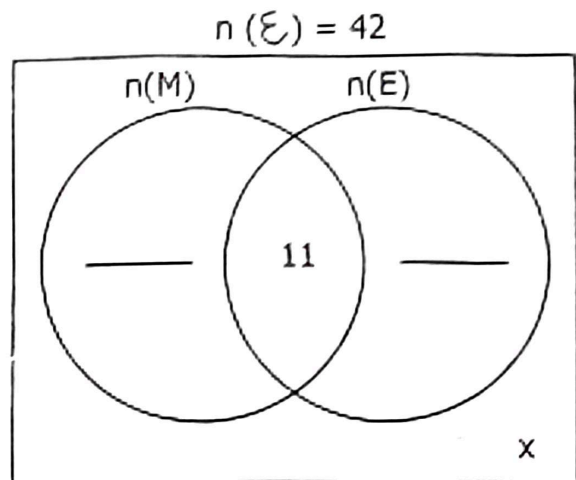
20. Find the least number of mangoes when divided by either 8 or 6 leaves remainder two.

SECTION B (60Mks)

21. At Bernadette primary school Nabbingo. P.7 has 42 pupils, $\frac{1}{3}$ passed mathematics (M) only, $\frac{1}{2}$ of them passed English (E), 11 passed both mathematics and English and x passed neither of the

subject.

- a) Use the information to complete the venn diagram. (03mks)



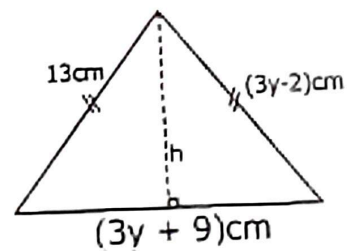
- b) Find the value of x. (03mks)

22a) Write 1904 in roman numerals.
(02mks)

b) Nabwoka's salary was sh.50,000.
It was decreased by sh.10,000, in
what ratio was the salary
decreased. (03mks)

b) Expand 34852 using values.
(02mks)

24. Study the figure below and answer
questions that follow. (02mks)

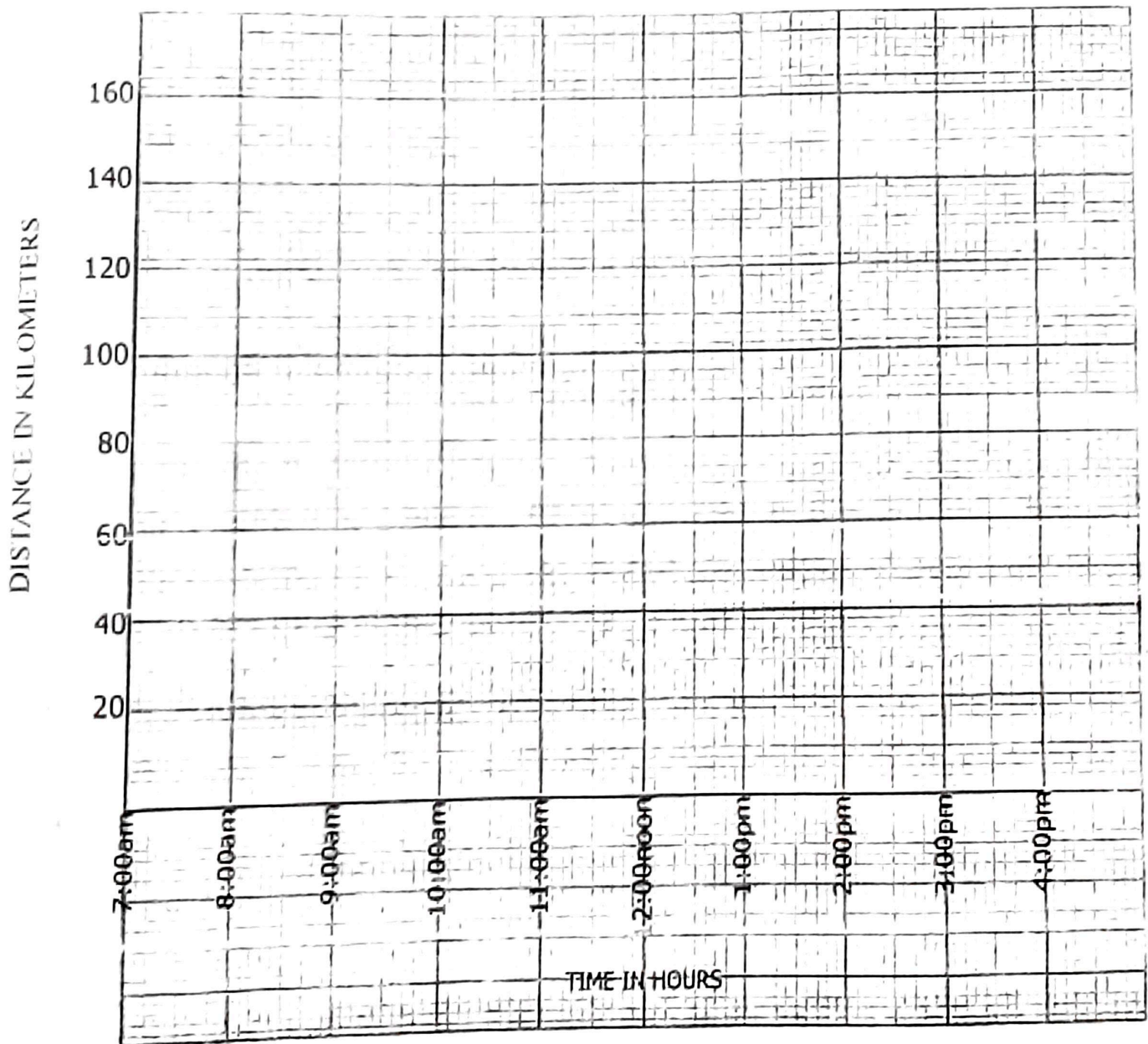


a) Find the value of y .

23a) Decrease sh.1000 in a ratio of 3:5.
(02mks)

b) Find the area of the figure.
(04mks)

25. Owori left Mbale town at 8:00am driving a car at 40km/hr for 2hrs to Iganga. He rest for 30 minutes at Iganga and then continued with his Journey to Mukono town at the same speed for $1\frac{1}{2}$ hrs. He turned back at 40km/hr for one hour to Jinja where he rested for 30minutes. From Jinja he drove back to Mbale town at 50km/hr. Use the above information to show Owori's journey on the graph.



26a) Given that $A = \{2_1, 3_1, 5_1\}$

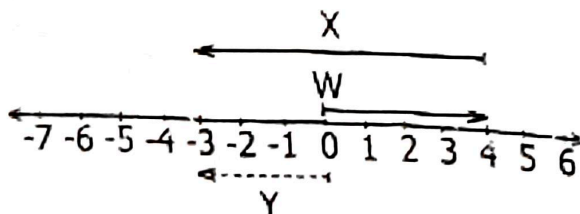
$B = \{2_1, 3_1, 3_2\}$

Find the value of A. (02mks)

b) Work out the lowest Common

Multiple of A and B. (03mks)

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



What integer is represented by each letter. (01mk@)

$Y =$ _____

$X =$ _____

$W =$ _____

Write down the mathematical statement for the numberline.

(02mks)

28. Given the numbers $\frac{1}{2}$, $\frac{1}{8}$ and $\frac{1}{3}$

a) Find the median of the above numbers. (03mks)

b) Work out their mean.

(03mks)

30a) Solve for the unknown base.

(03mks)

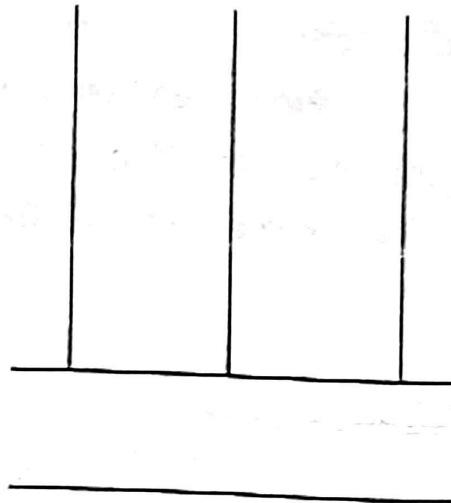
$$45_p = 32_{\text{nine}}$$

29. A school spends 18% more on food than stationery. What percentage is spent on stationery.

(03mks)

b) Show 450 on the abacus.

(02mks)



31a) Fatuma's mother is 23 years old and Fatuma is 4 years old, in how many years will the mother be twice as old as Fatuma. (03mks)

b) Electric poles were planted 50m apart. Mariam moved from the second pole to the 15th pole. Find the distance she covered. (02mks)

32a) Use a ruler a pencil and a pair of compasses only, construct a parallelogram ABCD such that line $AB=7\text{cm}$ $BC = 5\text{cm}$ angle $ABC = 120^\circ$. Drop a perpendicular from D to meet AB at M. (04mks)

b) Measure line DM. (01mk)

..... Good Luck