

**MORTAR EXCEL EXAMINATIONS COMMITTEE**  
**MOCK 2023**  
**P.7 MATHEMATICS**

**Time allowed: 2 hours 30 minutes**

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID NO. 

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Read the following instructions carefully:

1. This paper is made up of two Sections:  
A and B.
2. Section A has 20 questions (40mks) and  
Section B has 12 questions (60mks)
3. All answers must be written using a blue or  
black ball-point pen or ink but only diagrams  
must be drawn in pencil.
4. Unnecessary alteration of work may lead to  
loss of marks.
5. Any handwriting that cannot easily be read  
may lead to loss of marks.
6. Do not fill anything in the boxes indicated

**"It is for Examiners' use Only".**

**Organised by:**  
**Mortar Excel Examinations Committee Entebbe.**



**Mortar Excel Examinations Committee Entebbe.**  
**Tel: 0757-713720/ 0783-185533/ 0782-967838/ 0782-357828**

**FOR  
EXAMINERS'  
USE ONLY**

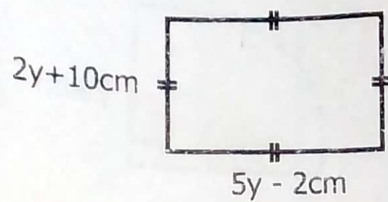
FOR EXAMINERS' USE ONLY		
Qn No.	Marks	Examiner's No.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 23		
24 - 26		
27 - 29		
30 - 32		
TOTAL		

### SECTION A(40Mks)

1. Divide:  $4 \div 8 =$
2. Express 49094 in words.
3. Muhoozi is aged 47 years. How old in roman numerals will he be after 9 years from now?
4. Change  $\frac{3}{4}$  to a decimal numeral.
5. Given that  $\bigcirc$  stands for  $5\frac{1}{2}$  apples, how many apples are represented by  $\bigcirc\bigcirc\bigcirc\bigcirc$ ?
6. Work out:  $K^2 \times K^4$ .
7. Six books cost sh.6000. How many dozen can I buy with sh. 18,000?



8. PQRS below is a square.  
Calculate its actual length.



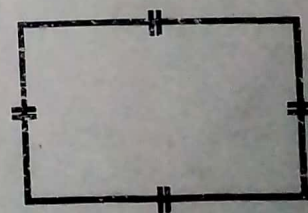
9. Kiplimo can run 10 metres in 3 seconds. Express his speed in Km/hr.

10. Use lattice method to multiply 367 by 45.

11. Solve for t in:  $3t = 4$  (finite 7)

12. Kimuli sold a watch at sh.72000 making a loss of 10% of its cost price. Find this loss.

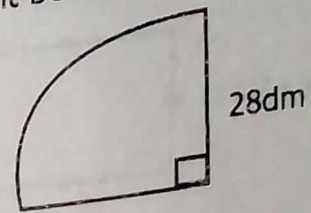
13. How many circular plates of diameter 4cm can be cut out of a rectangular sheet below measuring 25cm by 12cm?



14. Abbey got an interest of sh.18000 at the rate of 10% p.a after depositing sh.90,000. Calculate the time taken to yield this interest.

15. Subtract:  $1101_{\text{two}} - 110_{\text{two}}$ .

16. Find the perimeter of the quadrant below.

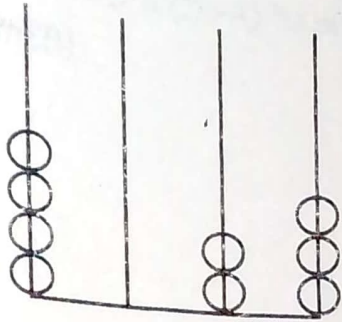


17. Set  $Q = \{2, 4, 6\}$ . List down the proper subsets of set  $Q$ .

18. The least numeral which can be divided by 8 and 10 leaving no remainder is .....



19. Which numeral is shown on the abacus in standard form?



20. The age of a teacher is 42 years. The average age of the teacher with 36 pupils is 13 years. What is the total age of the pupils?

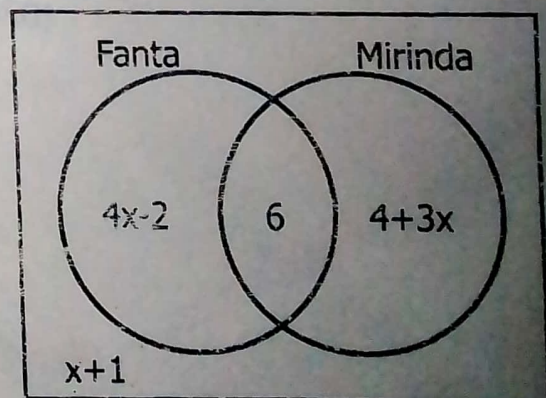
### SECTION B (60Mks)

21. Jalia is eighteen years younger than Hamza. Ten years from now, Hamza will be 2 times of Jalia's age.

- a) How old is Hamza? (02mks)

- b) Calculate the sum of their ages in ten years time. (02mks)

22. At a Birth Day party, some girls drank Fanta while others Mirinda as shown.



- a) If 45 girls did not drink fanta,

how many drank neither?  
(03mks)

- b) What is the probability that a girl at this party drank only Mirinda?  
(02mks)

23. Given that:

- a)  $2^{3y} + 2 = 64$ , what is the value of  $y$ ?  
(02mks)

- b) The LCM and GCF of A and C is 60 and 4 respectively. What is the value of  $(A+C)$  if  $C = 12$ ?  
(03mks)

24. The length of one side of a floor in form of a rhombus is 15m. Its longer diagonal is 24m.

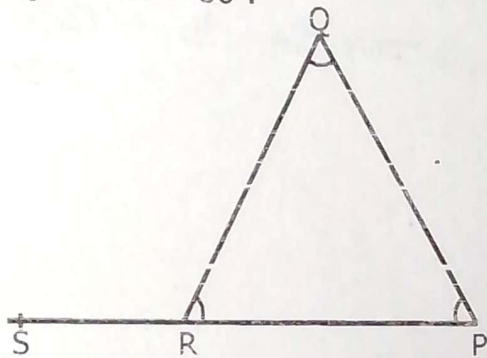
- a) Calculate its area. (03mks)

- b) If it is mopped at the rate of sh.800 per square metre, what is the total cost of this task?

(02mks)



25. In the triangle PQR,  $\angle PQR = 2m^\circ$ ,  $\angle QPR = m + 18^\circ$  and angle  $QRS = m + 80^\circ$ .



- a) Find the size of angle QRP = .....  
(03mks)

- b) Name the regular polygon whose interior angle  $= 140^\circ$ . (03mks)

- 26a) The sum of 3 consecutive even numbers is 36. If the largest is  $n$ , what is the value of  $n$ ?

(02mks)

- b) Determine the product of the 1st and 3rd number. (02mks)

27. A ship sailed from P eastwards to Q at a speed of 60km/hr taking 3 hours. It then continued to port R which was on a bearing of  $050^\circ$  from Q covering 120km.

a) Sketch the ship's route. (01mk)

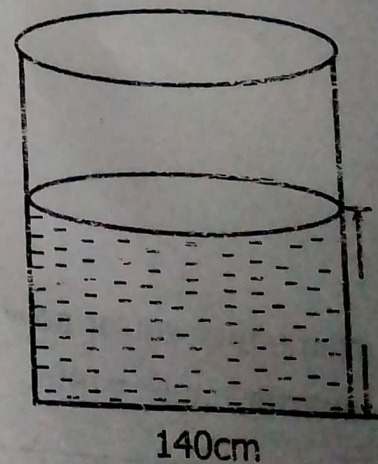
b) Use a scale 1cm: 30km to draw an accurate route of this ship. (03mks)

c) Use your accurate diagram to determine the bearing of Port R from P. (01mk)

28. Workout  $5.4 \times 0.04$  without making them fractions. (02mks)

b) Simplify:  $\frac{1}{4} - \frac{3}{5} + \frac{1}{2}$ . (03mks)

29. The cylindrical tin holds milk to the height of 120cm.





a) What amount of milk in litres is in the tin? (03mks)

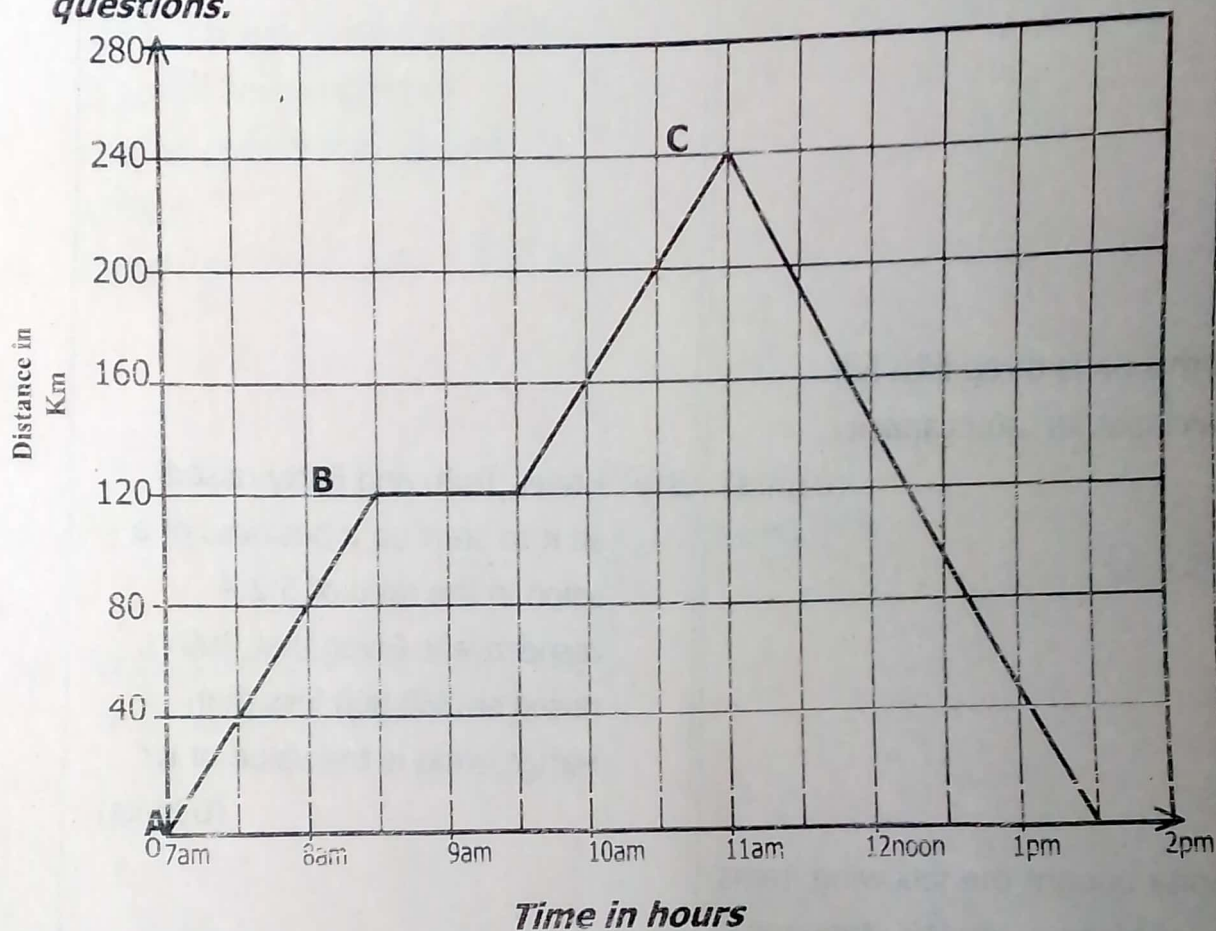
b) If this tin is three fifth full, calculate its total capacity. (02mks)

30. Anita bought the following items from Maama Tendo's stationery shop.  
Half dozen of books at sh. 3500 @book.  
3 reams of paper at sh.22000@  
15 bic pens at sh.3600 for 3pens  
4 pieces of Markers at sh.6000.  
If she was given a 10% discount, calculate the actual discount. (05mks)

31a) Harriet, Ruth and Betty raised sh.K to start up a business of a salon in the ratio of 5:2:4 respectively. Given that Ruth raised sh.360,000 less than Harriet, what is the value of K? (03mks)

b) What amount of money was raised by Betty? (02mks)

32. The travel Graph shows a journey made by a pick-up from town A to C and then back to A. Use it to answer the following questions.



- a) For how long did it stay at town B? (01mk)
- b) How far is it from B to town C? (01mk)
- c) At what time in 24 hour clock notation did the pick up reach A from C? (01mk)
- d) Calculate the speed of the pick-up from town A to C. (02mks)

~~~~~ Good Luck ~~~~~