

# ME EDUCATIONAL CONSULT

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Index No.

EMIS No.						Personal No.		

Class:

.....Stream:.....

Candidates Name .....

Candidates' Signature .....

District Name .....

**Read the following instructions carefully.**

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

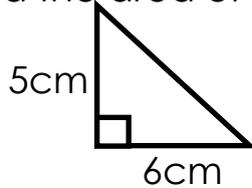
FOR EXAMINERS USE ONLY		
QN. NO.	MARK	SIGN
1 - 10		
11 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

**SECTION A (30 MARKS)**

1. Subtract:  $128 - 17$

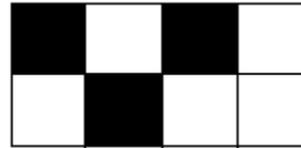
2. Simplify:  $2x + 3x - x$

3. Find the area of the figure below.



4. Write 124 in Roman numerals.

5. What fraction of the figure below is unshaded?

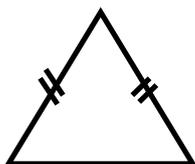


6. Express 15.39 hours in a 12 hour clock system.

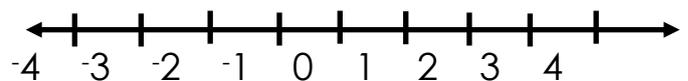
7. Find the missing number in the sequence.

0, 2, 6, 8, \_\_\_\_\_, \_\_\_\_\_

8. How many lines of folding symmetry does the figure below have?



9. Work out  $-4 - +6$  using a number line below.

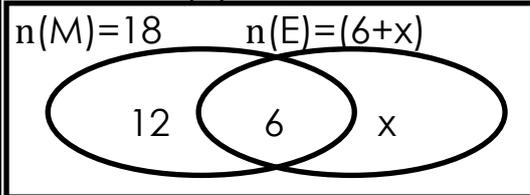


10. Use the Venn diagram below to find the value of  $x$ .

$$n(\mathcal{E}) = 30$$

$$n(M) = 18$$

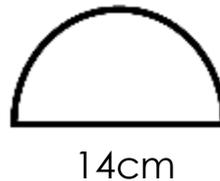
$$n(E) = (6+x)$$



11. Given that  $\frac{3}{4}$  of the pupils in a class are girls. If the class has 40 boys. Find the total number of pupils in the class.

12. Work out  $3 - 6 = \underline{\quad}$  (finite 7)

13. Find the area of the semi-circle below if the diameter is 14cm



14. The average age of 2 boys is 14 years. One of them is 13 years old. How old is the second one?

15. Work out:

Hrs	min
3	20
- 1	40
<hr/>	
<hr/>	

16. Express  $16_{\text{ten}}$  to binary base.

17. Given that  $(x + 20^\circ)$  and  $(3x + 40^\circ)$  are supplementary angles. Find the values of X in degrees.

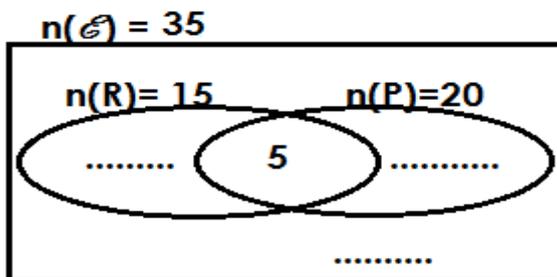
18. The temperature on mountain Rwenzori was  $-20^\circ\text{C}$ . If it rose by  $5^\circ\text{C}$ , what is the temperature now?

19. Solve for y:  $3y - 4 = 32$

20. Write 148.9 in scientific notation.

**SECTION B**

21 (a). In a class of 35 pupils, all eat matooke(M). Some pupils eat rice(R) while others eat posho(P). y pupils eat matooke only. The information is shown in the Venn diagram below. Fill in the missing values **3marks**



b) Find the value of y. **2marks**

c) How many pupils like only one type of food? **1mark**

22(a) The interior angle of a regular polygon is  $60^\circ$ , name the polygon **3mks**

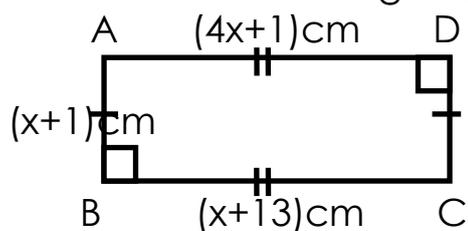
b) Find the interior angle sum. **2marks**

23. Asiimwe borrowed sh.200,000 from a bank which charges a simple interest rate of 10% per year and used it for 6 months?

a) Find the total amount Asiimwe paid. **3marks**

b) If Asiimwe used the money to buy a piece of land which she later sold at a profit of 20%, find the selling price of the land. **2marks**

24. ABCD is a rectangle. Use it to answer the questions that follow.



a) Find the value of x. **2marks**

b) Calculate its area. **3marks**

25. In Jinja Municipality mock examinations,  $\frac{1}{3}$  of the candidates obtained division one,  $\frac{1}{4}$  obtained division two and the rest obtained division three. Use the above information to construct an accurate pie chart (Use radius = 3cm). **6marks**

26. The time-table below shows the departure and arrival of a motorcyclist riding from Ssembabule to Kampala.

TOWN	ARRIVAL	DEPARTURE
Ssembabule		07:30a.m.
Lukaya	10.10a.m.	11.00a.m.
Mpigi	11.50a.m.	12.00 noon
Kampala	12.30 p.m.	

a) At what time did the motorcyclist start his journey? **1mark**

b) How long did the motorcyclist stay at Lukaya? **2marks**

c) If Kampala is 200km from Ssembabule, calculate the cyclist's average speed for the whole journey. **3marks**

27. A mother is 27 years older than her daughter. 6 years ago, their total age was 45 years.

a) How old is the mother now? **3mks**

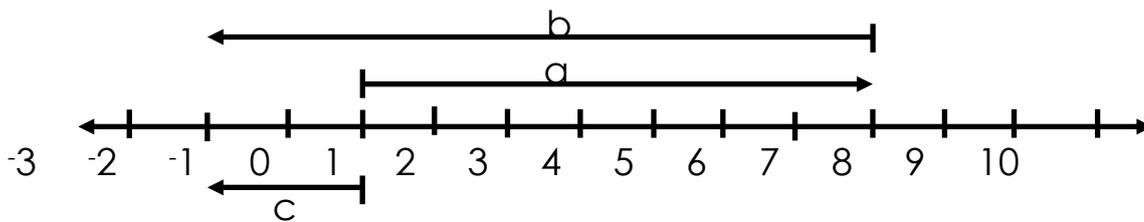
b) How old was the daughter 6 years ago? **2marks**

28. Namanya was given bank notes numbered consecutively from AM007813 to AM007839.

a) How many bank notes was she given? **2marks**

b) If each note was worth sh.20,000, how much did she get? **2marks**

29. Use the number below to answer the questions that follow.



a) Name arrows: **3marks**

i) a \_\_\_\_\_ ii) b \_\_\_\_\_ iii) c \_\_\_\_\_

b) Write the mathematical statement shown on the above number line.

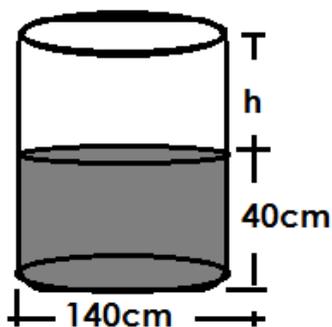
.....**1mark**

30. After selling a radio at sh.48,000. John made a loss of 20%.

a) Find his buying price. **2marks**

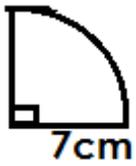
b) Calculate his loss. **2marks**

31.(a) The figure below shows a cylindrical water tank with a diameter of 140cm. If it holds 1078,000cc when full, find the value of h **2marks**



b) Calculate the perimeter of the quadrant below.

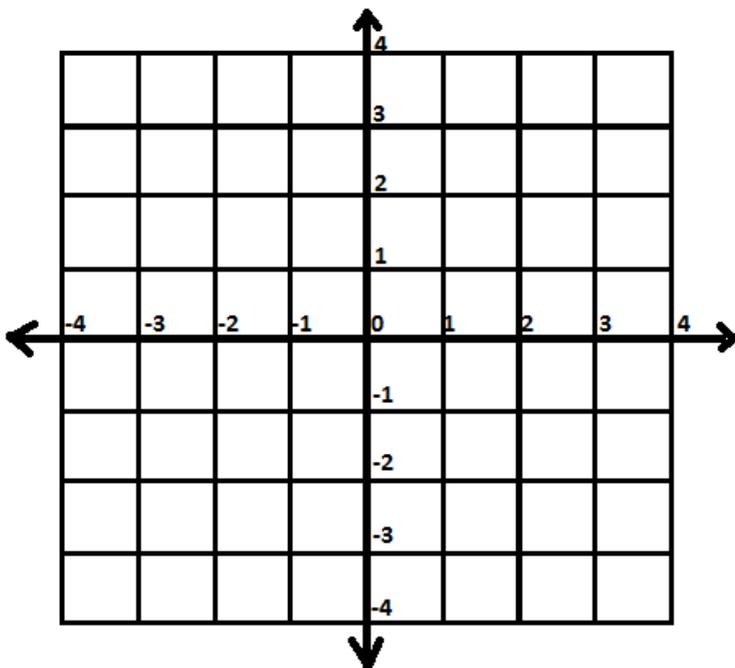
**2marks**



32(a) Use the grid below to plot the following coordinates:

$M(-2,3)$ ,  $N(2,3)$ ,  $K(4,-1)$  and  $P(-2,-1)$  **2marks**

b) Join points M to N, N to K, K to P and P to M, and name the geometrical figure formed..... **2marks**



c) Calculate the area of the shape formed.

**2marks**