SMILE EDUCATION CONSULTANCY BUSUNJU

P. 6 End of Term III Examination, 2023.

Mathematics.
Time allowed: 2 hours and 30 minutes

Name:

SECTION A (40 marks)

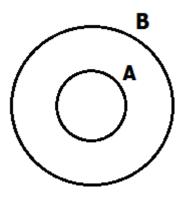
1. Work out: 17 + 11

- 5. Work out the value of y: y + 4 =2(mod 7)
- What is the place value of 4 in the 2. number 3 9 4 6 5?
- 6. A baby slept from 8:50 a.m. to 10:20 a.m., for how long did the baby sleep?

- Find the next number in the 3. sequence: 1, 3, 9, 27, _____
- Draw an angle of 55⁰ in the space provided below.

4. Divide: $\frac{3 \div 2}{5 \cdot 3}$

8. Describe the relationship between set A and set B.



9. By selling a shirt at sh. 16,500, a trader makes a loss of sh. 3300. How much money did the trader pay for the shirt?

12. Convert 3.5Km to metres.

13. Find the maximum number of pupils that can share 12 and 18 apples without leaving a remainder in each case.

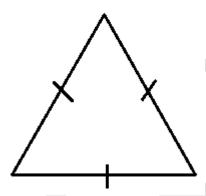
- 14. Express $\frac{7}{10}$ as a decimal.
- 10. Work out the mean of: 3x, x + 4 and 2x + 5

- 11. Given that a = 4, b = 3 and c = 2; evaluate ab c
- 15. At Down Town Forex Bureau, 1 US dollar (\$) = Ug. Sh. 3600. Martha exchanged 250 dollars in Ug. Sh., How much did she get?

16. Work out: 1011_{two} – 101_{two}

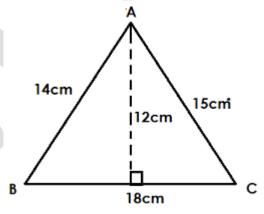
19. Given that set $A = \{1, 2, 4, 5\}$ and set $B = \{3, 4, 6\}$. Find n(A - B).

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



18. Subtract (3y - 8) from (5y - 6)

20. Calculate the area of triangle ABC below.



Section B: (60 marks)

21. In a group of 53 pupils, 30 like Fanta (F), 28 like Mirinda (M), **x** like both Fanta and Mirinda while 7 like neither of the two drinks.

(a) Complete the Venn diagram, below.

n(ξ) =53

n(F)=30

n(M)=28

(2 marks)

WHAT'S APP: +256779680288

(b) How many pupils like both types of drinks?

(2 marks)

(c) How many pupils don't like Mirinda?

(2 marks)

22(a) Use distributive property to work out: $(66 \times 36) + (64 \times 66)$

(2 marks)

(b) Given that $2^{2x} \times 2 = 32$, find the value of x.

(3 marks)

23. Study and complete the table below. (5 marks)

ITEM	QUANTITY	UNIT COST	TOTAL COST
Sugar	3Kg	Sh	Sh. 14400
Bread	loaves	Sh.3200 per loaf	Sh. 3200
Milk	2 ½ litres	Sh. 800 per half litre	Sh

Tea leaves	2 packets	Sh per packet	Sh
Total Expenditure			Sh. 24000

(3 mark)

(b) 8 men can slash a field in 6 days. How many men can slash the same field in 4 days? (2 marks)

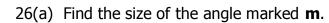
25. Two bells are used in a school, one rings after every 30 minutes while another rings after every 45 minutes. If the bells ring together at 8:00 a.m.:

(a) after how long will the bells next ring together?

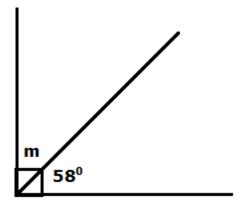
(2 marks)

(b) at what time will they next ring together?

(3 marks)



(3 marks)



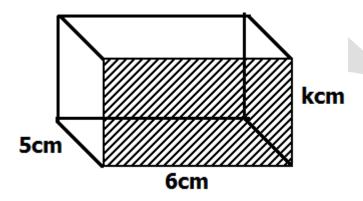
(b) Given that $4x^0$ and $x + 30^0$ are supplementary angles. Find the value of x. (3 marks)

27. A bus took 2 ¼ hrs to travel from town P to town R at an average speed of 96Km/hr.

(a) Calculate the distance between town P and town R. (2 marks)

(b). If a cyclist covered the same distance at a speed of 54Km/hr. How long did the cyclist take to cover the same journey? (2 marks)

28. The diagram below shows a cuboid. Use it to answer the questions that follow.



(a) How many edges has the cuboid above?

(1 mark)

(b) The area of the shaded face is 24cm^2 . Find the value of **k**.

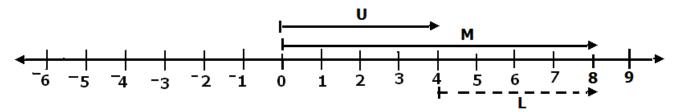
(2 marks)

(c) Calculate the volume of the cuboid.

(2 marks)

29. Zainab is 4 times as old as Hamida. In 7 years' time, their total age will be 69 years. How old is each of them now? (4 marks)

30. Study the number line below carefully.



(a) Write the integer represented by the letters below. (1 mark each)

Write a mathematical statement represented on the number line above. (1 mark) (b)

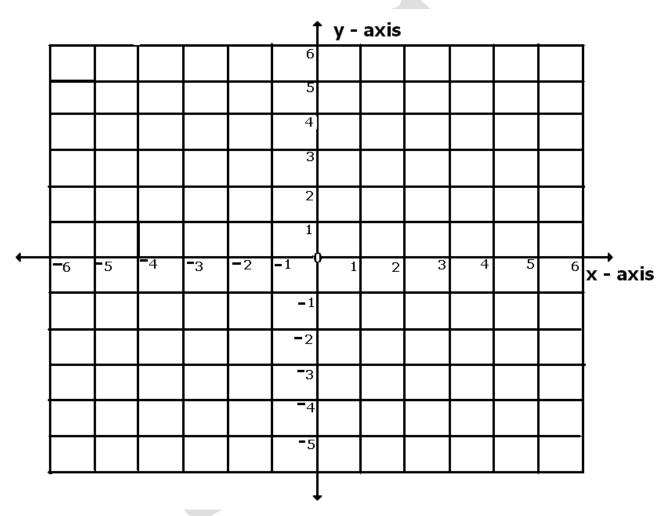
31(a) Change 456 to Roman numerals.

(2 marks)

(b) What is the product of the value of 6 and the value of 7 in 56087? (3 marks) 32(a) Plot the following points on the coordinate graph below.

$$A(^{-}2, 2)$$
 , $B(2, 2)$, $C(4, ^{-}3)$, $D(^{-}4, ^{-}3)$

(4 marks)



(b) Join the points and name the figure formed.

(2 marks)

