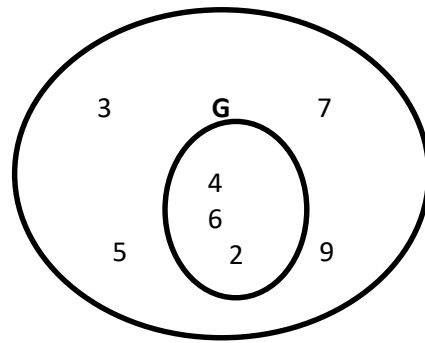


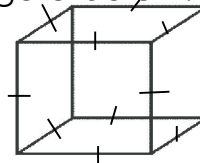
THE VERIFIED UNEB BLUE PRINT ITEM (FIVE)
MATHEMATICS

SECTION A (40 MARKS)



1/ 1/

6. Find the total surface area of the figure below.



8. A birthday party started at **4:30**_{pm} and lasted for **2³/₄** hours. At what time did the party end?

10. What number has been expanded to give **2.75 x 10⁻³** ?

1. Workout **6 + 4 x 6**

2. Use the venn diagram to find $n(G)^1$

3. If today is Tuesday, what day of the week was it **50** days ago?

5. Express **4 : 4** as a percentage.

4. The lowest common multiple (L.C.M) of two numbers **16** and **K** is **48** and their greatest common factor (G.C.F) is **4**. Find the value of **K**.

— — 3cm

7. Find the sum of the next two numbers in the sequence. **1, 3, 6, 10**, _____, _____

9. Find the value of **2** in **4213**_{five}

11. In a taxi park there are **144** cars. The Probability that a car picked at random From the park is made in Japan is $\frac{3}{8}$. How many cars are made in Japan?

13. Subtract $2 - n$ from $2n - 4$

14. Four men slash a school compound same piece of work in **2** days?

15. The temperature of a place in the has risen by 5°C . Find the new

16. Find the perimeter of the figure below.



35cm

in
the ratio of
Shs15,000.
Money?

19. John sold a bull at Shs**1,200,000** and made a loss of **20%**. Find the buying price of a bull.
be facing?

12. What number is exactly half way between **4.5** and **5.5**
Many cars are not

in **12** days, how many men can do the morning was **-10°C** . During the day it temperature.

17. Job and Bob share pocket money **2:3** respectively. If Bob got How much was the pocket

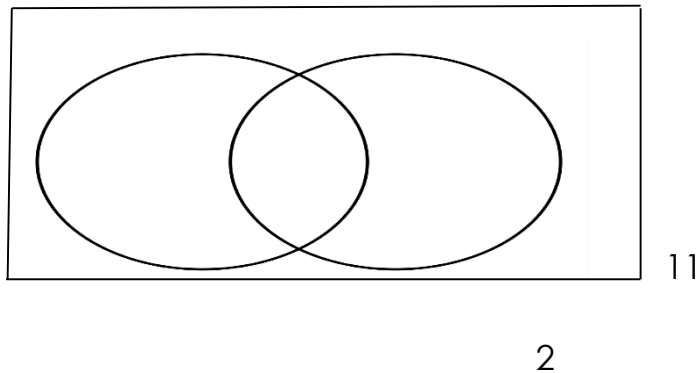
20. Juma is facing West direction. If he turns anticlockwise direction through angle of **135°** , In which direction will he

SECTION B (60mks)

21. At a farewell party of **36** candidates, **k** candidates like Music (**M**) only, **11** candidates liked both Music and Drama (**D**), **22** candidates like Drama, while **2** candidates liked neither Music nor Drama.

a). Show the above information on a venn diagram. (2mks)

$n(\Sigma)$
 $n(M)$
 $n(D)$



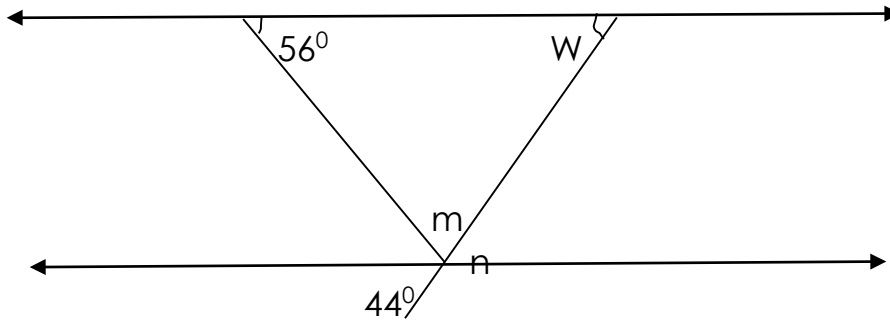
b). Find the value of **k**. (3mks)

22a). Simplify $\frac{3.6 - 2.52}{0.4 \times 0.018}$ (3mks)

b). Express **0.1666**----- as a common fraction in its lowest terms. (2mks)

23. Barbara's age is $\frac{1}{3}$ that of her sister's age now. In six years' time, the sister's age will be twice that Barbara. How old is each now? (5mks)

24. Study the figure below and use it to answer the questions that follow.



a). Find the size of:

(i) angle **m** (2mks)

(ii) angle **n** (1mk)

(iii) angle **w** (2mks)

25. The table below shows how the rate at which different currencies were sold and bought in commercial banks during the month of June. Study and use it to answer the questions that follow.

CURRENCY	BUYING IN Ugsh	SELLING IN Ugsh
1 US dollar(\$)	3,700	3,800
1 Euro(£)	4,300	4,500
1 Kenya(Ksh)	24	25

a). How many Euros did James get for Ugsh **639,000**? (2mks)

b). A tourist came from USA with **520** US dollars and exchanged for Kenya shillings, how much **Kshs** did he get? (3mks)

26. At St. Bethel Training Academy, the siren for females' roll call sounds after every **35** minutes while that of male trainee sounds after **45** minutes.

a). After how many minutes do both sirens sound at the same time? (3mks)

b). If the sirens sounded together at **11:30_{am}** for the second time, at what time did they sound together for the first time? (2mks)

27. Joan bought the following items:

4kg of sugar at Shs**2,000** per **500g**.

1½ litres of milk at Shs**1,500** per litre.

4 exercise books at Shs**6,000** for a dozen.

a). How much did she spend altogether? (3mks)

b). If Joan went with a fifty thousand note, how much was her change?

28. a). The interior angle of a regular polygon is **5** times its exterior angle. Find the size of its exterior angle. (3mks)

b). How many sides has the polygon?

(2mks)

c). Calculate the sum of its interior angles.

(2mks)

29a). A farmer collects **50** grosses of eggs per day. How many trays does he collect per day if each tray carries **30** eggs? (2mks)

b). If each tray costs Shs**10,000**, how much money does he get in a week? (2mks)

30. A man spent $\frac{1}{3}$ of his salary on buying drinks and $\frac{1}{2}$ of it on buying of food. If he spent **25%** of the remainder on rent and was left with Shs**60,000**.

a). How much was his salary?

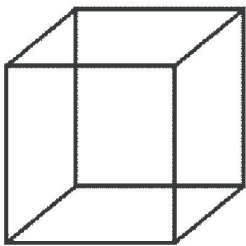
(3mks)

b). How much money did he spend he spend on rent?

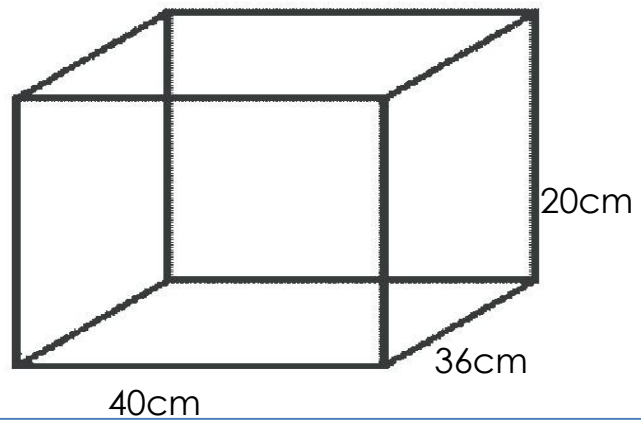
(2mks)

31. Jacob drove his car from town **K** to town **Y**. If his car tyres have diameter of **28cm** and moved **5000** revolutions to cover the distance between two towns. Find the distance between town **K** and town **Y** in kilometers. (4mks).

32. Pieces of soap each measuring **5cm** by **5cm** by **5cm** are to be packed in a
big



5cm
5cm
5cm



a). How many pieces of soap can be packed in the big box? (2mks)

b). Calculate the volume of the space left empty after the pieces of soap have been packed in the big box. (3mks)

box **40**cm long, **36**cm wide and **20**cm high.