THE VERIFIED UNEB BLUE PRINT ITEM (FOUR) MATHEMATICS

SECTION A (40 MARKS)

1. Workout 6 tens + 2 ones

2. Express **25**% as a ratio.

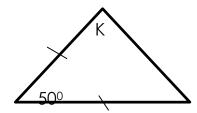
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3. Write "Forty-three thousand forty-three"

in figures.

4. Find the next two numbers in the sequence. 1, 6, 4, 9, 7, ____, ____

5. Find the value of **K**.



6. Add 1011two + 101two

7. Solve $3y - 5 \le 13$

8. A meeting that lasted for 1 2hrs ended At 9:30_{a.m.} At what time did it start?

9. Workout: $\frac{3}{4} \div \frac{1}{2}$

10. The dozen of pens is Shs**6000**. What is 11. Write **CXLIV** in Hindu Arabic numerals. the cost of 8 similar pens?

12. Cheplimo ran 5,000 m in 25 min. What	13. Workout (4.5 x 145) – (45 x 4.5) using

- 14. By selling a bag at Shs**45,000**, a trader 15. Subtract **2** X from **3**x **1** made a loss of Shs**15,000**. Calculate his percentage profit.
- 16. Mary is the **9th** girl from either side of the line. How many girls were standing in the line?
- 17. Find the area of a circle whose circumference is **88**cm.
- 18. Set **K** has **31** proper subsets. How elements are in set **K**?

20. Without dividing, show that **6957** is

divisible by 9.

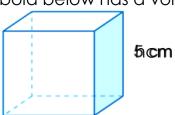
19. A box contains **5** red pens, **6** black pens and **8** blue pens. If a pen is picked at random what is the probability of picking a red pen?

SECTION B (60mks)

21.a). Sim	vlila	5.4	Χ	0.8	8
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(3mks)

23. The cuboid below has a volume of



b).Calculate its total surface area.(3mks)

- 24. Amos went to the Super market and bought the following items.
- 4kg of meat at Shs15,000 per kg.
- $2^{1/2}$ kg of rice at Shs**4,000** per kg.
- 4 sachets of curry powder at Shs4,000
- 20 tomatoes at Shs2,000 for every five tomatoes.
- b). How much more money did Jacob get a). If he received a discount of 10%, how than Job? (2mks)
 - much did he pay for all the items. (4mks)

6cm

8cm

a). Find the height in cm. (2mks)

b). Simplify;
$$\frac{1}{2} + \frac{2}{3} \div \frac{4}{9}$$
. (2mks)

22a). Job, Joab and Jacob shared a certain amount of money in the ratio of **2:3:5**. If Joab got Shs**24,000**. How much did they share? (3mks)

26. The table below shows how a

motorcyclist travelled from town **F** to town **M** through towns **A** and **B**. Study

and use it to answer questions that follow.

Towns Departure

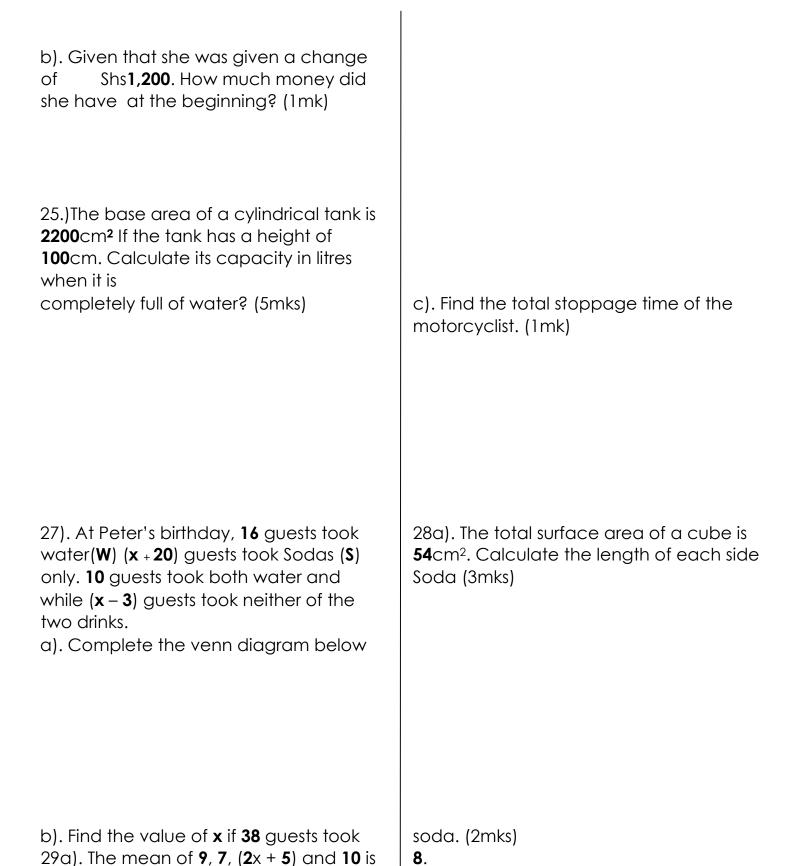
Town F
Town A
Arrival - 10:45am
Departure - 11:00am

Town B
Arrival - 12:50pm
Departure - 1:05pm

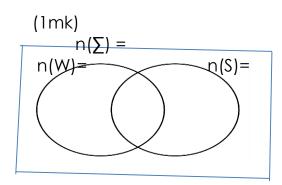
Town M
Arrival - 2:30pm

- a) At what time did the motorcyclist leave town **A**? (1mk)
- b). How long does the motorcyclist take

to travel from town **F** to town **M**? (3mks)



Find the value of \mathbf{x} . (3mks)

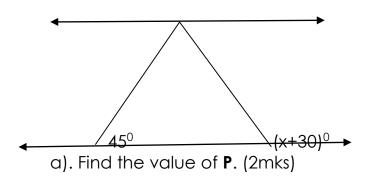


b). Workout its volume. (2mks)

d). If one person is picked at random b). Find their median. (2mks) from the guests. What is

the probability that he or she took water only? (2mks)

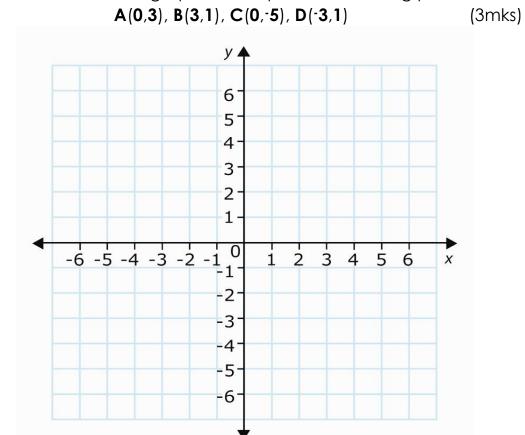
30. In the figure below, **PQ** is parallel to 31. A car uses 1/3 of a litre to travel **5**km. If



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

RS. a litre of petrol costs Shs6500, how much 70° money is needed to buy enough petrol to cover a journey of 300km? (5mks).

32a). On the coordinate graph below, plot the following points.



b). Join the points **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A** and name the figure formed. (2mks)