**NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SECTION A (40 MARKS)**

1. Write 2024 in standard form.
2. Round off 34.98 to the nearest tenths.
3. Show 102five on the abacus.
4. A meeting that took 2 hours 5 minutes ended at 1:15 P.m. At what time did the meeting start?
5. Solve and write the solution set for K – K > 12.
6. Using a ruler and a pair of compasses only. Construct a line through point K parallel line MN.

M

N

K

1. Work out -5 - +4 on the number line below.

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

1. The weight of a teacher is 72 kg. The average weight of the teacher and three pupils is 50kg. Calculate the weight of each pupil.
2. Find the bearing of A from B on the figure below.

1300

A

B

1. The diagram below shows a rectangular fence on a piece of land. Find the number of posts used if the spacing between the posts was 4 metres.

10m

20m

1. Okello walked a distance of 2km in 20 minutes. Find his speed in kilometers per hour.
2. In an hour the minute hand of a clock covers 88cm. calculate the length of the minute hand.
3. Which number must be added to the smallest 3 digit number formed by using digits 4, 9, 0 to get 1000?
4. In a meeting, the ratio of women to men is 5:3 if there are 10 less men than women. How many women are in the meeting?
5. Wandera bought a gross of pens at sh. 6000 per dozen. She later sold each pen at sh. 700. Calculate her profit.
6. Change 5m2 to cm2
7. Hala curved a wire to make a cubic body of a toy car. The body of the toy car makes a volume of 216cm3. Find the length of the wire was used.
8. Without dividing show that 238 is divisible by 7.
9. Draw a symbol of an empty set.
10. The rectangular tank below holds 1 litre. Find the size of each side.

**SECTION B (60 MARKS)**

1. A glass costs sh. 2,000 more than a cup. The cost of two cups is the same as of the cost of a glass. Find the cost of a cup. **(5marks)**
2. Below is Bena’s water metre reading in the month of December.

Previous reading 088694

Current reading 088832

If the service fee is sh. 3000 per month and a unit cost sh. 500. Work out the total water bill.  **(5 marks)**

1. A box of soap weighs 33.2kg when full and weights 0.47kg when empty. If each bar of soap weighs 600g. How many bars of soap are in the box when its full of soap.
2. A taxi and a bus left Soroti for Kampala at the same time which is 360km apart. A taxi was moving at 1000km/h and a bus was moving at 120 km/h. how far was the taxi from Kampala when the bus arrived? **(5 marks)**
3. Study the figure below and find the value of K. **(3 marks)**

30

2K

620

1300

b) What is ¼ of the supplement of 600? **(2marks)**

1. **The table below shows the rates at which a bank buys and sells United States and Kenya shillings.**

|  |  |  |
| --- | --- | --- |
| **Currency** | **Buying in Ug. Sh.** | **Selling Ug. Sh.** |
| 1 US dollar | 3,700 | 3,750 |
| 1 Kenya sh. | 27 | 27.5 |

1. If a tourist had 260 dollars and 800 Kenya shillings, how much money in Uganda shillings did he get from the bank?
2. A television set costs Ug. Sh. 3,375,000. Find the cost in US dollars.
3. Blessing, Grace and Mercy contributed sh. 60,000, sh. 24,000 and sh. 36,000 respectively for a joint business which made a profit of sh. 51,000. Find the amount which has shared according to their initial contributions. **(5 marks)**
4. Find the number of square tiles each 15cm needed to cover a room measuring 6m by 3m. **(3 marks)**

(b) If in each box, there are 20 tiles and each box costs shs. 25,000. Find the amount of money that will be spent to cover the room with tiles. **(2marks)**

1. Ouma deposited money in a bank which offers a simple interest rate of 2½ % per year. After 9 months, his account had an amount of sh. 163,000. Calculate the money Ouma deposited in the bank. **(5marks)**
2. Apio rides a distance of 2.97km from her home to school on a bicycle. The wheel of the bicycle has a diameter of 63cm.
3. How many revolutions does the wheel make to cover the distance? **(3 marks)**
4. If Apio makes 50 revolutions in one minute, how long does she take to reach the school? **(2 marks)**
5. Milk was mixed with water to make tea. If 14 litres of milk was used and this was 40% more than the amount of water in the tea. How much tea was prepared? **(5 marks)**
6. Given that of Akello’s salary is equal to ¾ of Okello’s salary. Find Akello’s salary if Okello’s salary is sh. 1,200,000. **(3 marks)**

b) Express Akello’s salary as a ratio to Okello’s salary. **(2marks)**

**END**