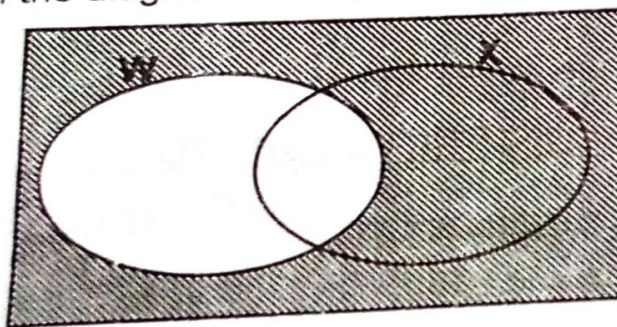1. Work out: $36 \div 4$

2. Write 99 in Roman Numerals.

3. In the diagram below, describe the shaded region.

4. List two equivalent fractions of $\frac{3}{5}$.
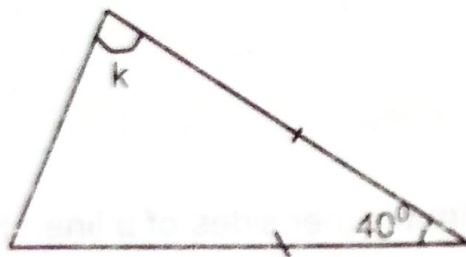
5. Simplify $3q - 6q + 5q$

2

6. Convert 13_{ten} to binary.

7. Find the next number in the sequence: 81, 27, 9, 3, _____

8. Write the number that was expanded to give: $(3×1000)+(6×100)+(4×10)$

9. Find the value of angle k.

0. A bus left town P at 11:30am and reached town Q at 4:00pm. How long did the bus take to travel from town P to town Q?

Tur

M

11. Find the mean of 4, 6+2y, 8 and 6y + 2.

12. A bus conductor issued receipts of sh.10000 each numbered consecutively from 1520 to 1539. How much money did he collect?
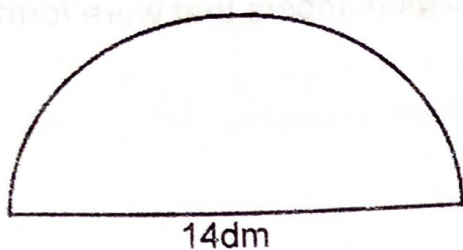
13. Work out $3 - 5 =$ ___ (Mod. 7)

4. Mary is standing in the 9th position from either sides of a line. How many people are standing in the line?

Express 15 minutes as a ratio of 1 hour.

4

16. Find the Greatest Common Factor (G.C.F) of 12 and 18.

17. Find the perimeter of the figure below (use $\pi = \frac{22}{7}$)

14dm

18. Given that **q=5, r =6** and **p = ⁻3**, find the value $\frac{qr}{r+p}$.

19. The bearing of town M from town P is 075⁰. Find the bearing of town P from town **M**.

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20. After selling an item at sh.14000, a trader made a loss of sh.7000, what was the cost price of the radio?
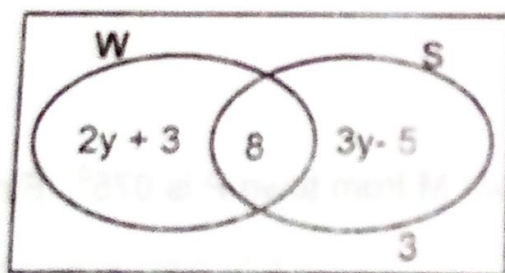
SECTION B (60 MARKS)

21. A teacher wrote the digits 4, 2 and 5 on the chalkboard for pupils to form 3-digit numbers.

    (a) Write down all the possible 3-digit numbers that were formed. (3mks)

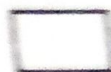   (b) What is the probability of writing an odd number? (2mks)

22. The venn diagram below shows the number of guests who took mineral water (W) and soda (S) at a birthday party.

    (a) If 18 guests took soda, find the value of y. (2mks)

(b) How many guests attended the part altogether? (2mks)

(c) How many guests did not take soda? (1mk)

23. A teacher spends ½ of his salary on food and 25% of the remainder on Rent and spends sh.300,000 to pay school fees.

(a) What fraction is used for school fees? (3mks)

(b) Calculate his monthly salary. (2mks)

24. The table shows the marks scored by P.7 pupils in a Science test.

Marks scored	70	80	90	10	45
No. of pupils	2	3	1	4	5

(a) How many pupils did the test? (1m

7

(b) Find the range of the marks. **(1mk)**

(c) How many pupils scored above the mean mark? **(3mks)**

25. The interior angle of a regular polygon is 100^0 more than its exterior angle.
    (a) Find the size of its exterior angle. **(2mks)**

    (b) Name the polygon **(2mks)**

    (c) Calculate the interior angle sum. **(2mks)**

MTC

26. Two bells at Rwesemire P/S ring at different intervals of 40 minutes and 50 minutes for lower and upper primary respectively. If they were first rung together at 8:00am, at what time will they ring together again? **(4mks)**

27. A boat moved from Island **K** due North 40km to Island **R**. It then moved on a bearing of 135^0 for 30km to Island **Q**.

    (a) Draw a sketch to represent the boat's journey. **(1mk)**

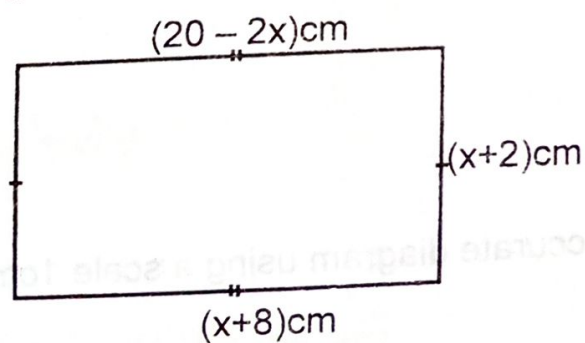   (b) Draw an accurate diagram using a scale 1cm to represent 5km. **(4mks**

(c) Find the shortest distance between Island **K** and Island **Q**. (1

28. (a) Given that $2^{2x} \times 2^2 = 64$

(b) Simplify $3^2 + 5^0$

(1

29. Study the rectangle below and answer the questions that follow.

$(20 - 2x)$cm

$(x+2)$cm

$(x+8)$cm

(a) Find the value of x.

10

(b)   Find the perimeter of the rectangle.

(3mks)

0.   Below are the exchange rates at a forex bureau.
1 US dollar costs Ug. sh. 3800.
1 pound sterling costs Ug. sh. 4200
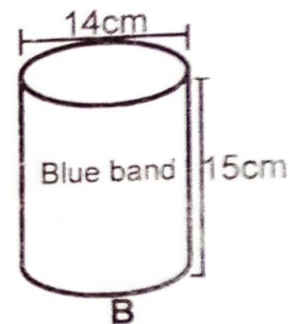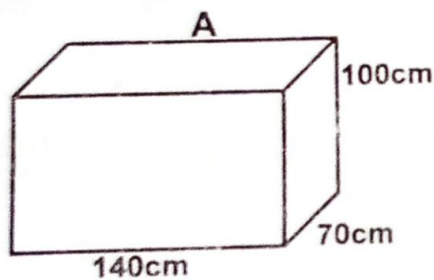1 Kenya shillings cost Ug. sh. 35.
(a)   A tourist from United States had USD450, how much money did he get
in Uganda shillings?

(2mks)

(b)   John exchanged K.sh 147,000 with Pound sterling, how many Pou
sterling did he get?

(3mks)

Turn

M

31. (a) If today is Tuesday, what day of the week will it be after 73 days? (2mks)

(b) Using a number line work out: 3×2. (2mks)

32. At a factory, blue band tins of diameter 14cm and 15cm high are packed in a box of 140cm by 70cm x 100cm

(a) How many tins (B) can be packed in a big box (A)? (2mks)

(b) Calculate the volume of the space left after packing all the tins. (4mks)

12 *END*

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