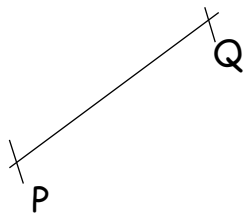


## SECTION A (40 MARKS)

1. Subtract  $135 - 23$ .
2. Write 49093 in words.
3. Express  $12\frac{1}{2}\%$  as a fraction in its simplest form.
4. Find the product of the 3<sup>rd</sup> and 5<sup>th</sup> prime numbers.
5. Construct a perpendicular bisector on the line segment PQ.



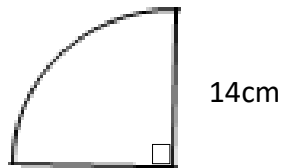
6. A jerry can was  $\frac{3}{4}$  full of milk, when 5 litres was removed, it becomes  $\frac{1}{2}$  full.  
Find the capacity of the jerry can.

7. Find the mean of  $2x$ ,  $14$ ,  $6x$  and  $6$ .

8. Express  $\frac{2}{3}$  to  $\frac{5}{6}$  as a ratio in its simplified form.

9. A girl was facing South - East, she turns anticlockwise through an angle of  $135^\circ$ . Find her new direction.

10. Calculate the distance around the figure below; ( $\pi = \frac{22}{7}$ )

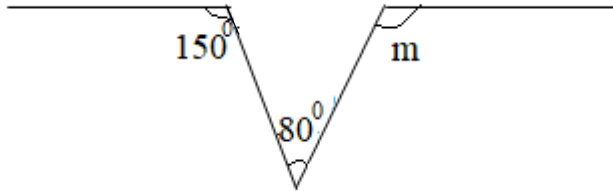


11. A cyclist covered 80km in  $2\frac{1}{2}$  hours. How long will he take to cover 64km moving at the same speed.

12. Given that  $5K1$  is exactly divisible by 3 and the sum of the digits is 15. Find the value of  $K$ .
13. Calculate the exchange rate in Uganda shillings at which the bank bought 150 US dollars to give Mathew Ug Sh. 577500.
14. Workers in a farm are paid after every 29 days. If they last received their pay on a Tuesday, on which day of the week will they receive their next pay?
15. Given that  $t = 4$ ,  $p = 3t$ . Find the value of  $2t + 4p$ .
16. Arrange the following fractions in ascending order.  
 $0.12$ ,  $0.5$ ,  $0.03$
17. A box contains 15 red and blue pens. The probability of picking a red pen at random is  $\frac{3}{5}$ . Find the number of blue pens.

18. What number is exactly half way between 4.5 and 5.5.

19. Study the figure below and find the value of  $m$  in degrees.



20. 5 men take 6 days to do a piece of work. How many more days will 3 men take to do the same piece of work?

**SECTION B (60 MARKS)**

21.a) Simplify :  $\frac{3.6 - 2.52}{0.4 \times 0.18}$ . (3 marks)

b) Express 0.1666...as a fraction in its simplest form. (3 marks)

22. The table below shows exchange rates in a commercial bank in the month of September 2022. Study it and answer questions that follow;

Currency	Buying in Ug.sh	Selling in Ug sh
1 US dollar(\$)	3700	3800
1 Euro	4300	4500
1 Kenya sh.	24	25

a) How many Euros did Paul get from Ug.sh. 639000? (2 marks)

b) A tourist came with 520 Us dollars and exchanged for Kenya shillings, how much Kenya shillings did he get? (3 marks)

23. A taxi driver drove from Town A to town B at an average speed of 70km/hr and made 9 return journey at average speed of 50km/hr. The whole journey took 6hours.

a) Find the distance from town A to town B. ( 3marks)

b) How long did he take to travel from town B to town A? (2 marks)

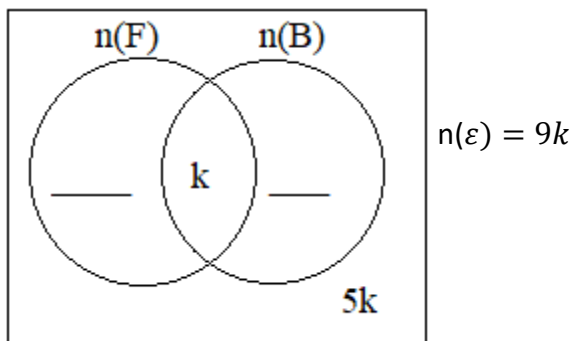
24. a) A trader made a profit of sh.200 on each of the 19 pens he sold. At how much did he buy the pens, if he got sh.38000 after selling all the pens.  
(3 marks)

b) Carol sold a phone for sh.36000 and realized a loss of sh.4000. Calculate her percentage loss.  
(2 marks).

25. In a school of  $9k$  pupils, 25 like fish (F), 30 pupils like beef (B),  $5k$  like neither of the two sauces, while  $k$  pupils like both fish and beef.

a) Complete the venn diagram.

(2 marks)



b) Find the number of pupils who don't like beef.

(3 marks)

26. The table below shows marks recorded by a teacher for a test that was done on a day when half the number of pupils in the class was absent.

<b>Mark</b>	<b>45</b>	<b>20</b>	<b>90</b>	<b>m</b>
Number of pupils	2	b	1	3

a) If the class has 8 boys and 12 girls, find the value of b. (2 marks)

b) Given that the mean mark of 50, find the value of m. (3 marks)

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

a) How much was his salary? (4 marks)

b) How much did he spend on drinks? (1 mark)

28. Using a ruler , pencil and a pair of compasses only. Construct an isosceles trapezium ABCD such that  $AB=6\text{cm}$ ,  $AD=BC=3.5\text{cm}$  and  $\angle ABC = 120^\circ$ .(4 marks)

c) Measure line segment DC.

(1 mark)

29. Mwana went to the market and bought the following items.

3 kg of beans at sh. 3400 per kg.

750 grammes of tea leaves at sh.3200 per kg.

12 oranges at sh.1400 for every 3 oranges.

If he was given a change of sh.2800, find the amount of money she went with.

(5 marks)



30. a) A milk man sells 15 litres of milk daily from Monday to Saturday and doubles the sales on Sunday. How many litres of milk does he sell in a week?  
(2 marks)

b) Sarah sold a total of 60 chicken on three consecutive days. If she sold 5 more chicken every day, how many chicken did she sell on the second day?  
(3 marks)

31. a) Subtract:  $2n - n$  from  $2n - 4$ .  
(2 marks)

b) Mustafa is 5 years old. Emmanuel is 25 years old. After how many years will Emmanuel's age be twice that of Mustafa?  
(3 marks)

32. In a basket there are 12 apples, 8 mangoes, 7 avocados and 9 oranges.  
Using a radius of 4cm, draw an accurate circle graph showing the above information. ( 5 marks).

**End**