

SECTION A (20 QUESTIONS - 40 MARKS)

1. Workout : $69 - 43$

2. Write 71090 in words

3. Given that set $A = \left\{ \begin{array}{l} \text{The first 2 multiples} \\ \text{of 6} \end{array} \right\}$

List the Sub-sets of set A

4. A farmer increased the number of trees in his garden by 8%. If he had 450 trees, find the new number of trees in his garden.

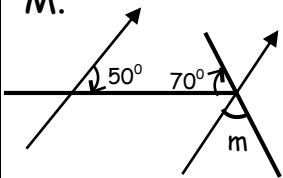
5. Convert 4.5 tonnes into kilogrammes.

6. Simplify: $8 - 3(P + 2)$

7. How many metres per second are in 90 Kilometres each hour.

8. Use the distributive property to workout : $(8 \div 3) + (10 \div 3)$

9. In the figure below, Find the value of M.



10. Find the Square root of 0.36

11. Emolot bought $1\frac{1}{2}$ kg of beans from the market. If he bought each half kilogram at sh. 1800, find how much he spent for buying the beans.

12. Expand 492 using power of ten.

13. Using a ruler, pencil and a pair of compasses only, construct an angle of 30°

14. A boy was walking and picked a piece of grass and folded it in form of a shape shown below. (take $\pi = \frac{22}{7}$)



Find the length of the piece of grass

15. Solve: $4x - 6 = 10$

16. The bearing of Napak from Kotido is 075° . Find the bearing of Kotido from Napak.

17. Workout: $1\frac{1}{4} - \frac{5}{6}$

18. Find the value of b if $3^{2b} \div 81 = 1$

19. Workout: Hrs Mins

6	15
- 2	50
_____	_____
_____	_____

20. Given the equation $y = 3x - 5$. Complete the table below.

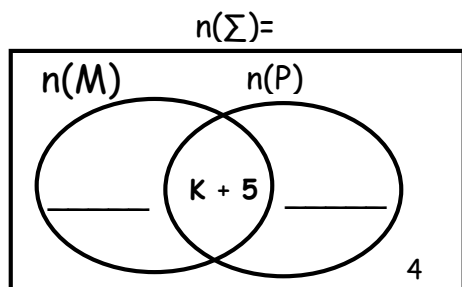
X	4	_____
y	_____	-2

SECTION B:

21. Given that $2w_{\text{five}} = 59_{\text{ten}}$. Find the value of W. (3marks)

b) Express XCV in Hindu Arabic numerals (2marks)

22. In a market, 27 traders sell Mangoes (M) only, $k + 10$ sell pineapples (P) only and $k + 5$ sell both Mangoes and pineapples while 4 traders sell other items.
a) Complete the Venn diagram below using the information above. (2marks)

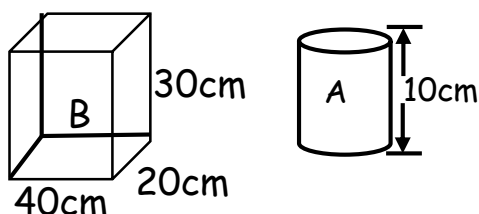


b) If 29 traders sell pineapples, find the value of k (2mark)	c) How many traders sell only one item (1mark)																		
23. (a) Workout: $\frac{1.8 \times 2.4}{2.7 + 0.9}$ (3marks)	b) Simplify: $\frac{2}{9}$ of $\frac{1}{4} \div \frac{2}{3}$ (2marks)																		
24. The exterior angle of a regular polygon is 90° less than its interior angle.																			
(a) Calculate the size of its exterior angle. (3marks)	(b) Name the polygon (2marks)																		
25. The table below shows the denomination of notes and their amount a) Complete the table (5marks)																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Denomination</th> <th style="width: 33%;">Number of notes</th> <th style="width: 33%;">Total amount.</th> </tr> </thead> <tbody> <tr> <td>Twenty thousand shillings</td> <td>15 notes</td> <td>Shs. _____</td> </tr> <tr> <td>Fifty thousand shillings</td> <td>_____ notes</td> <td>Shs. 400,000</td> </tr> <tr> <td>_____</td> <td>12 notes</td> <td>Shs. 120,000</td> </tr> <tr> <td>Five thousand shillings</td> <td>_____ notes</td> <td>Shs. _____</td> </tr> <tr> <td colspan="2"></td> <td>Shs. 1,020,000</td> </tr> </tbody> </table>		Denomination	Number of notes	Total amount.	Twenty thousand shillings	15 notes	Shs. _____	Fifty thousand shillings	_____ notes	Shs. 400,000	_____	12 notes	Shs. 120,000	Five thousand shillings	_____ notes	Shs. _____			Shs. 1,020,000
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26. Using a ruler, a pencil and a pair of compasses only, Construct a quadrilateral BASE where line BA = 6cm, line AS = 4cm and angle EBA = 120° (4marks)

b) Draw diagonal BS and measure the size of angle BSA (1mark)

27. Four cylindrical tins of size (A) were packed into container (B) as shown. After packing the tins, a space of $17,840\text{cm}^3$ remained



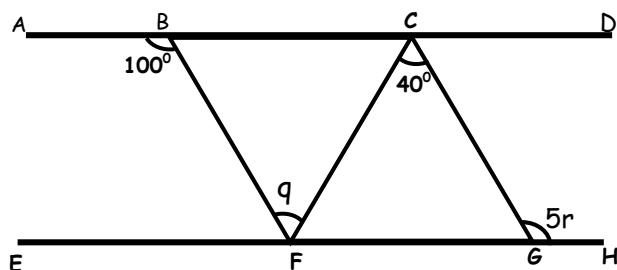
a) Calculate the volume of the container (2marks)

b) Find the radius of the tin. (take $\pi = \frac{22}{7}$) (3marks)

28. Subtract $y - 4$ from $3y - 7$ (2marks)

(b) Gloria is 10 years younger than Manasseh. If their total age is 26 years, how old is Gloria? (2mark)

29. In the figure below, line AD is parallel to line EH, and FCG is an Isosceles triangle. Study it and use it to answer questions that follow.

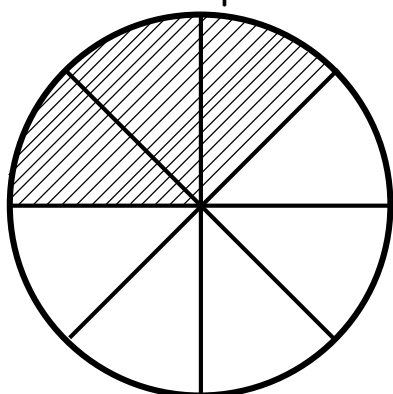


a) Find the value of r . (3marks)

(b) Calculate the value of q (2marks)

30. a) Solve $4x - 2 = 4$ (finite 7) (3marks) b) Find the least number of oranges that can be shared by either 8 or 6 leaving 4 as remainder (2marks)

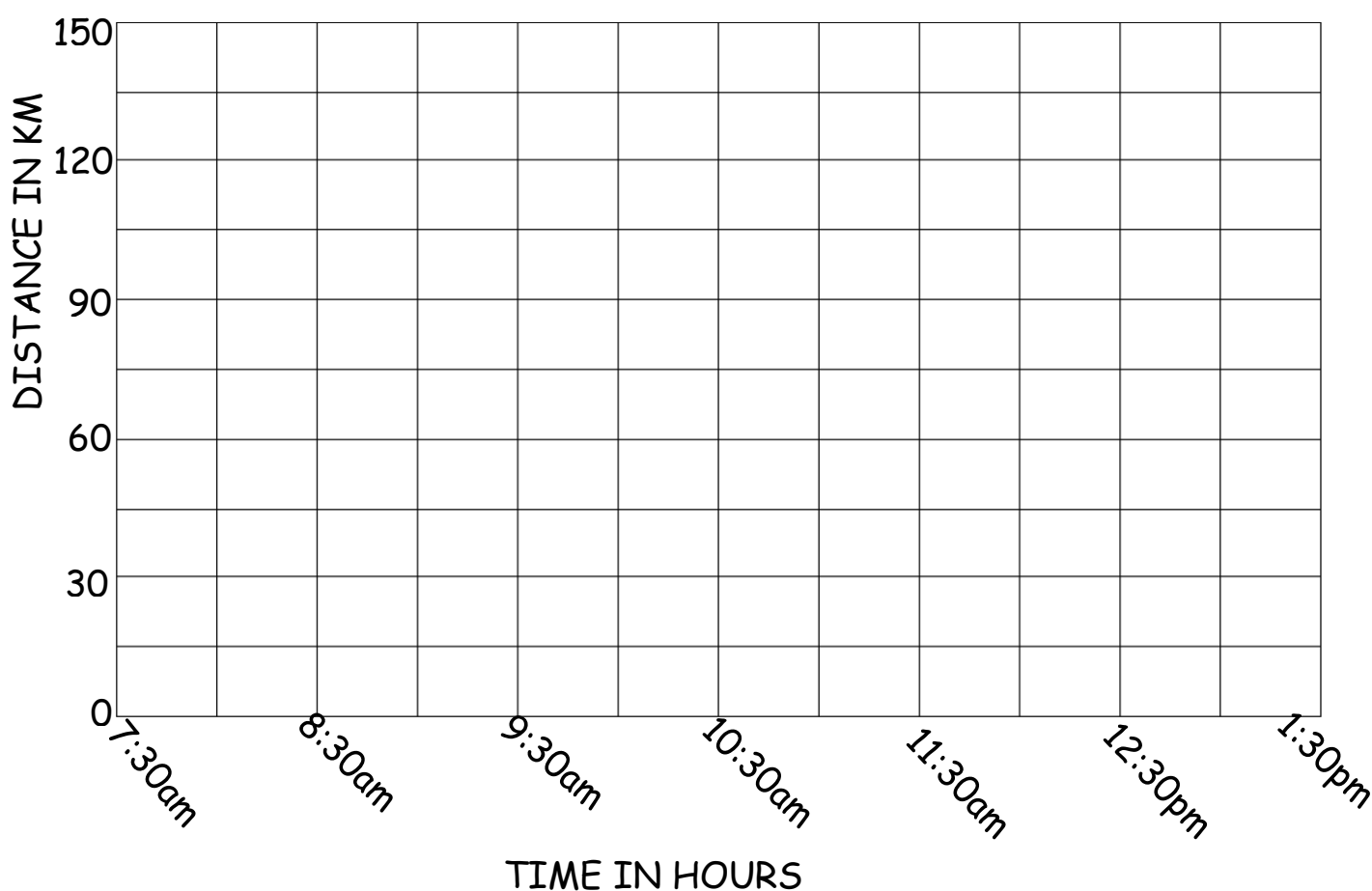
31. The shaded part in the figure below represents the number of boys in a school a) If there are 490 girls in the school. Find the total number of pupils in the school. (3marks)



b) How many more girls than boys are in the school (2marks)

32. Etigo started his Journey from home at 8:30am driving at a speed of 30km/h for 2 hours to town P. He rested for 30 minutes at P and continued to town Q at a speed of 40km/h for $1\frac{1}{2}$ hours.

a) Show Etigo's journey on the graph below. (4marks)



b) Find the average speed for the whole journey. (2marks)

END