

**SECTION A: 40 MARKS**

*Attempt all questions in this section  
Questions 1 to 20 carry two marks each*

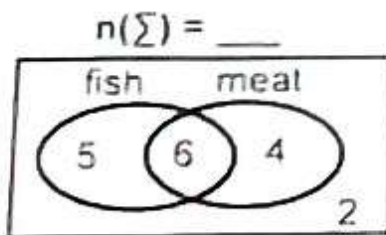
1. Use drawn tally symbols to find the number

|||| ||

2. Round off 93759 to the nearest thousands

3. Simplify:  $4b - 7b + 5b$

4. Use the venn diagram below to find the probability of picking a learner who eats fish.



5. Work out:  $\frac{1}{2} - \frac{2}{5}$  of  $\frac{3}{4}$



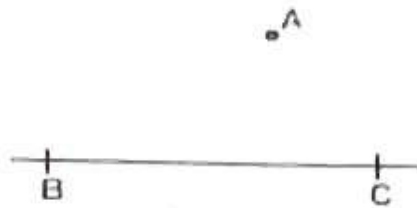
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**P.7 MATHEMATICS SPECIAL SET EXAMINATION 2023**

UNITE CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOK, SEMAR, TR'S GUIDES & PUPIL'S COMPANION.



6. With the help of a pair of compasses, a pencil and a ruler only, construct a perpendicular line from point **A** to meet line segment **BC** below.



7. Express  $1101_{\text{two}}$  to base ten.
8. Mineral water bottles of **250 millilitres** were used to fill a **ten litre** jerrycan with cooking oil. How many bottles of **250 millilitres** were used?
9. If yesterday was **Wednesday**, find the day of the week it will be after **23 days** from now.
10. Solve the inequality:  $5 - 3k < 20$ .



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IGNITE CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SENAS, THE GUIDES & PUPIL'S COMPANIONS.

2

19 A house can be built by 6 men in 20 days. How many men are needed to build the same house in 12 days at the same rate?

20 A car left town A for town B at a speed of 72km/h. How long did the car cover between the two towns if it took 45 minutes?



### SECTION B: 60 MARKS

Attempt **all** questions in this section.

Marks for each part of the question are indicated in the brackets.

21 Nakubulwa went to the market with sh. 20,000. She bought the items as shown in the table below;

Item	Unit cost	Total cost
2kg of sugar	Sh 2400 per 500gm	sh _____
_____ litres of milk	Sh 2000 per litre	sh 5000
750gm of rice	sh _____ per kg	sh 3600
Total bill		sh _____

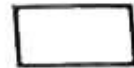
a) Complete the **blank** spaces correctly.

(04 marks)

) How much did she pay if she was given a discount of sh.1200?

(01 mark)

15. The subsets of set **W** are  $\emptyset$ , {a}, {b}, {c}, {a, b}, {a, c}, {b, c} and {a, b, c}. Find  $n(W)$ .



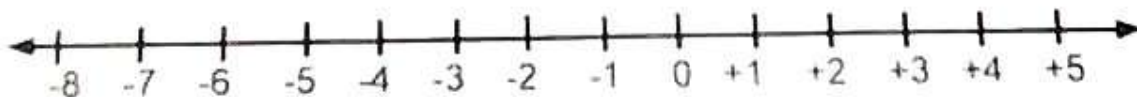
- 16 Simon built a rectangular house 48m long and 24m wide using poles fixed at intervals of 4 metres. Find the number of poles he used.

Below are the exchange rates at which the bank buys and sells the currency. Use it to answer the question that follows.

currency	Buying rates	selling rates
1 dollar	Ug sh 3700	Ug sh 3800
1 pound sterling	Ug sh 4,000	Ug sh 4100

- 17 If a tourist had Ug sh 2,460,000, how many Pound Sterling will he get?

- 18 **Work out:**  $5 - +2$  on the number line below.



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PLUG IN CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOK, SCMA, THE GUIDE & PUPIL'S COMPANION.

11. Write 10:30pm in 24 hour clock

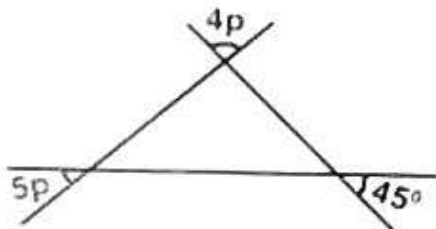
12. The prime factors of 18 and 30 are given below

$$18 = 2 \times 3^2$$

$$30 = 2 \times 3 \times 5$$

Use the **prime factors** given above to find the Lowest Common Multiples of 18 and 30

13. Find the value of  $P$  in the diagram below.



14. Calculate the number whose scientific notation became  $8.49 \times 10^{-2}$ .



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ACQUIRE CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, REMAR, THE GUIDES & PUPIL'S COMPANIONS.

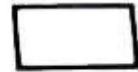
26. The table below shows the performance of a primary seven candidate class in Mock of 2023

Marks scored	50	1	60
Number of pupils	3	4	2

- (a) How many pupils sat for the examination?

(02 marks)

- (b) If the average mark was 70, find the value of  $t$



(03 marks)

27. At a primary school, there are **three** bells which ring at intervals of 30 minutes, 40 minutes and 1 hour for nursery, lower primary and upper primary respectively.

- (a) After how long will the three bells take to ring together at the same time?

(03 marks)

- (b) if they rang at 11:00a.m, when will they ring again?

(02 marks)



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PURSUING CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THIS ACTIVITY BOOKS, SEMAS, THE GUIDES & PUPIL'S COMPANIONS.



24(a) Express  $0.\overline{63}$  to a common simplified fraction

(02 marks)

(b) Given that tap A takes only 6 minutes to fill the tank while tap B takes  $y$  minutes to fill the same tank. How long will tap B only take to fill the same tank if both taps when opened together took 2 minutes?



25(a) Maggie covered 80% of her journey by bus. Having been late, she covered the remaining 90km by taxi to catch up with time. How long was the journey?

(03 marks)

(b) If the bus was moving at 90km/h, how long did it take Maggie to board off the bus?

(03 marks)

(02 marks)



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IGNITE CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, STEMS, PPS GUIDES & PUPIL'S COMPANIONS

7

22 (a) Draw an abacus to show  $231_{\text{five}}$

(b) Given that  $22_m = 110_{\text{three}}$ , find the value of  $m$

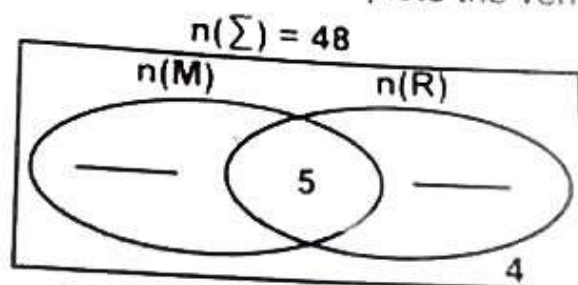
(02 marks)



23 In a class of 48 pupils, 21 pupils eat Matoke (M), 21 pupils eat rice (R) 5 pupils eat both kinds of food while 4 pupils eat neither of the two foods.

(03 marks)

(a) Use the above information to complete the venn diagram



(b) Find the number of pupils who eat only one type of food.

(02 marks)

(03 marks)



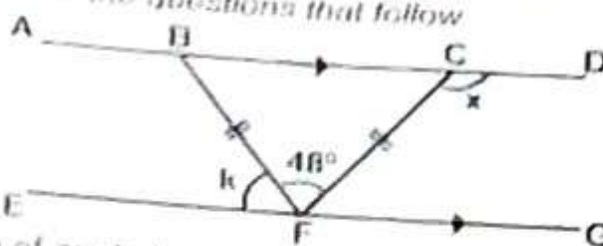
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DEVELOP CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, BEYOND THE GUIDES & PRACTICE COMPANIONS





- 28 Line **AD** is parallel to line **EG** and **BCF** is an isosceles triangle  
Use it to answer the questions that follow



(a) Find the size of angle  $k$

(b) Calculate the size of angle  $x$

(03 marks)

- 29 Circular plates of diameter **14cm** were cut from a rectangular sheet **84cm** long and **35cm** wide

(02 marks)

(a) How many circular plates were cut?

(b) Work out the unused area after cutting the circular plates.

(02 mark)

(03 mark)



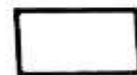
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IGNITE CRITICAL THINKING & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOK & DEMO THE GUIDES & PUPIL'S COMPLETION

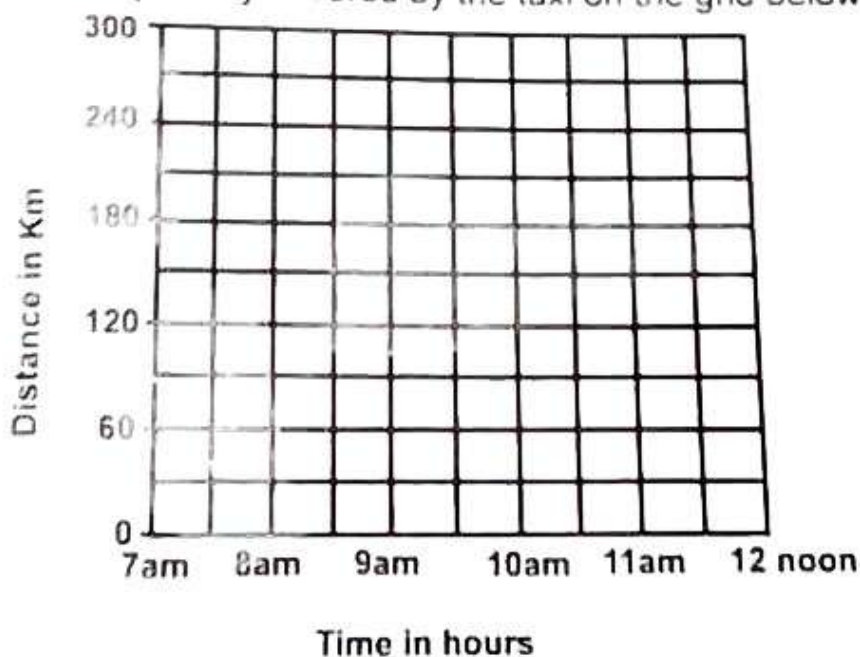
30(a) Solve the equation  $2(7y - 4) = 3(2y + 4)$

(b) Johnson is 11 years older than Monica. In seven years time, Johnson will be twice the age of Monica. Find the age of Monica now. (02 marks)



31 A taxi departed at 7:00a.m from town B at a speed of 60km/h for 2 hours. It stayed at town C for 30 minutes then continued to town D a distance of 180km in  $2\frac{1}{2}$  hours. (03 marks)

(a) Show the journey covered by the taxi on the grid below.



(03 marks)



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CHALLENGE YOURSELF & EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAR, TRY'S GUIDES & PUPIL'S COMPANIONS



(b) Calculate the average speed for the whole journey

(02 marks)

32(a) Draw line  $AB = 7\text{ cm}$ . Use a ruler, a pencil and a pair of compasses only to construct an angle of  $90^\circ$  at point  $A$  and then construct angle  $30^\circ$  at point  $B$ . Let the two lines meet at  $C$  to form a triangle  $ABC$ .

(03 marks)

(b) Measure

(i) line  $BC =$  \_\_\_\_\_ cm

(ii) angle  $ACB =$  \_\_\_\_\_

(02 marks)



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