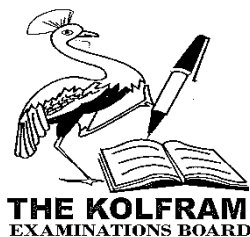


# KOLFRAM EDUCATIONAL SERVICES KAMPALA



## BEGINNING OF TERM II EXAMINATION 2023

### PRIMARY SEVEN MATHEMATICS

Time allowed: **2 hours 30 minutes**

Candidate's name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

District ID Number

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**DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO**

**Read and follow these instructions carefully:**

1. Do not write your school or district name anywhere on this paper.
2. This paper has two sections: A and B. Section A has 20 questions and section B has 12 questions. The paper has **8** printed pages.
3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
7. Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

#### FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

#### A PRODUCT OF KOLFRAM EDUCATIONAL SERVICES KAMPALA

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**Turn over**

**SECTION A: (40 MARKS )**

1. Subtract:  $187 - 34$

2. Simplify:  $+6 + -4$

3. Solve for y:  $2y - 4 = 10$

4. Express XXIV in Hindu – Arabic numerals.

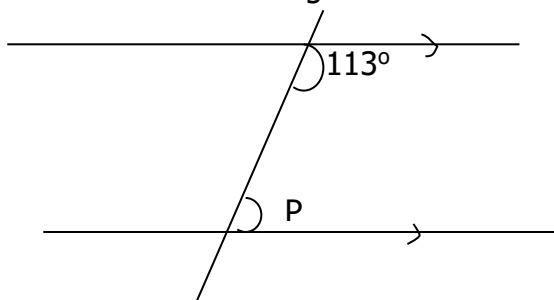
5. Change 125 grammes into kilogrammes.

7. A meeting took  $1\frac{1}{3}$  hours. If it started at 8:50 a.m at what time did it end?

8. Find the next number in the sequence. 81, 64, 49, 36, \_\_\_\_\_.

9. Work out the range in 6, -9, +4, +9, 5 and 7.

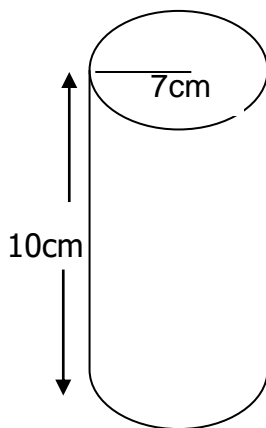
6. Calculate the size of angle P.



10. Using the distributive property only to work out  $(37 \times 25) + (3 \times 25)$

11. Find the volume of the cylinder below.

(Take  $\pi$  as  $\frac{22}{7}$ )



14. Write : Four million, four thousand four in figures.

15. Write 0.3636..... as a rational number.

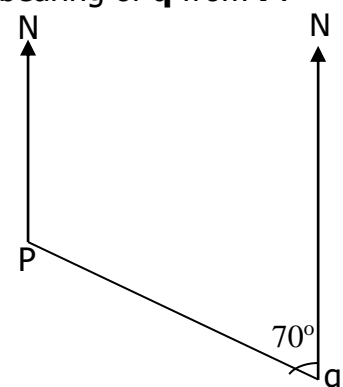
12. Round off: 63.97 to the nearest tenth.

16. Work out:  $110_{\text{two}} \times 11_{\text{two}}$ .

13. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $30^\circ$  in the space provided below.

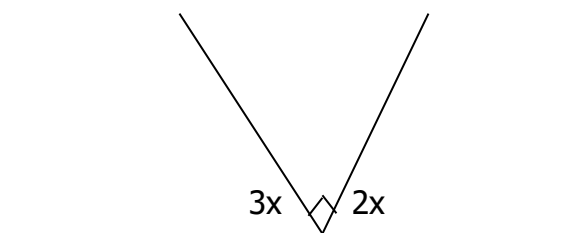
17. If the cost of one United States Dollar is ug sh. 3300. How many US Dollars will Nakato buy with ug sh. 231000?

18. Find the bearing of **q** from **P**.



19 A business woman got a loan of shillings 120,000 from a bank. She paid an interest of 7,200. Find the rate at which she was charged per year if she used the money for 9 months.

20. In the figure below **ABC** is a straight line. Find the value of x.



### **SECTION B: (60 MARKS)**

21. **The table below shows Oboth's expenditure. Use it to answer the questions that follow.**

Item	Price	Amount spent
$3\frac{1}{2}$ kg of beans	Sh. 2000 per kg	Sh. _____
$1\frac{1}{2}$ kg of maize flour	Sh. _____ Per kg	Sh. 3000
2 loaves of bread.	Sh. 2300 per loaf	Sh. 4600
4 litres of milk	Sh. 600 per $\frac{1}{2}$ litre	Sh. _____
$\frac{1}{2}$ kg of rice	Sh.4000 per kg.	Sh. 2000
	Total expenditure	Sh. _____

(a) Complete the table above. (1 mark each)

(b) If Oboth paid sh. 19260 for all the items above, What percentage discount was he given? (2marks)

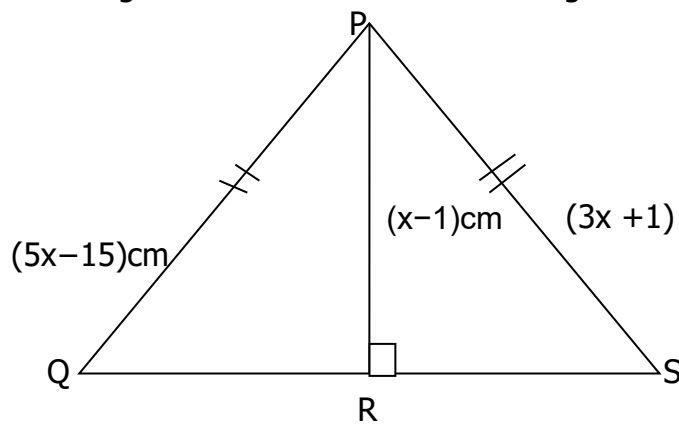
22a) Evaluate:  $\frac{7.2 \times 3.5}{0.15 \times 2.4}$

(3 marks)

(b) Simplify:  $\left(\frac{2}{3} + 1\frac{1}{2}\right) \div \frac{3}{4}$

(2 marks)

23. The figure below is an Isosceles triangle. Use it to answer questions that follow.



(a) Find the value of  $x$ . (2 marks)

(b) Find the length of  $QS$ .

(4 marks)

24. The interior angle of a regular polygon is  $100^\circ$  more than its exterior angle.

(a) Find the number of sides of the polygon. *(3 marks)*

(b) Calculate the interior angle sum. *(2marks)*

25. The table below shows marks scored in end of term English exams by pupils.

Marks	60	80	70	90
Frequency	4	2	1	3

(a) How many pupils did the examination? *(1mark)*

(b) Find the modal frequency. *(1 mark)*

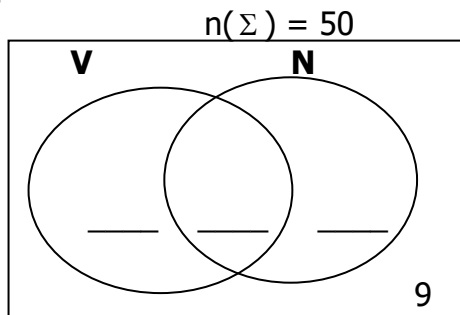
(c) Calculate the average mark. *(2 marks)*

26. In a class there are 20% more girls than boys. If the boys are 48.  
 (a) Find the total number of pupils in the class. (3 marks)

(b) How many more girls are there than boys? (2 marks)

27. In a club of 50 women, 11 play Volley ball (**V**) only, (P+6) play Net ball (**N**) only. **P** play both Volley ball and Netball. 9 play none of the two games.

- (a) Represent the information above in the Venn diagram below. (2 mark



- (b) Work out the value of **P**. (2 marks)

- (c) What fraction of women play Netball? (1mark)

28a) Using a ruler, a pencil and a pair of compasses only, construct a triangle **PQR** in which **QR** = 6cm, angle **PQR** =  $30^\circ$  and angle **QRP** =  $120^\circ$ . (4 marks)

(b) Measure the line **PQ**. (1mark)

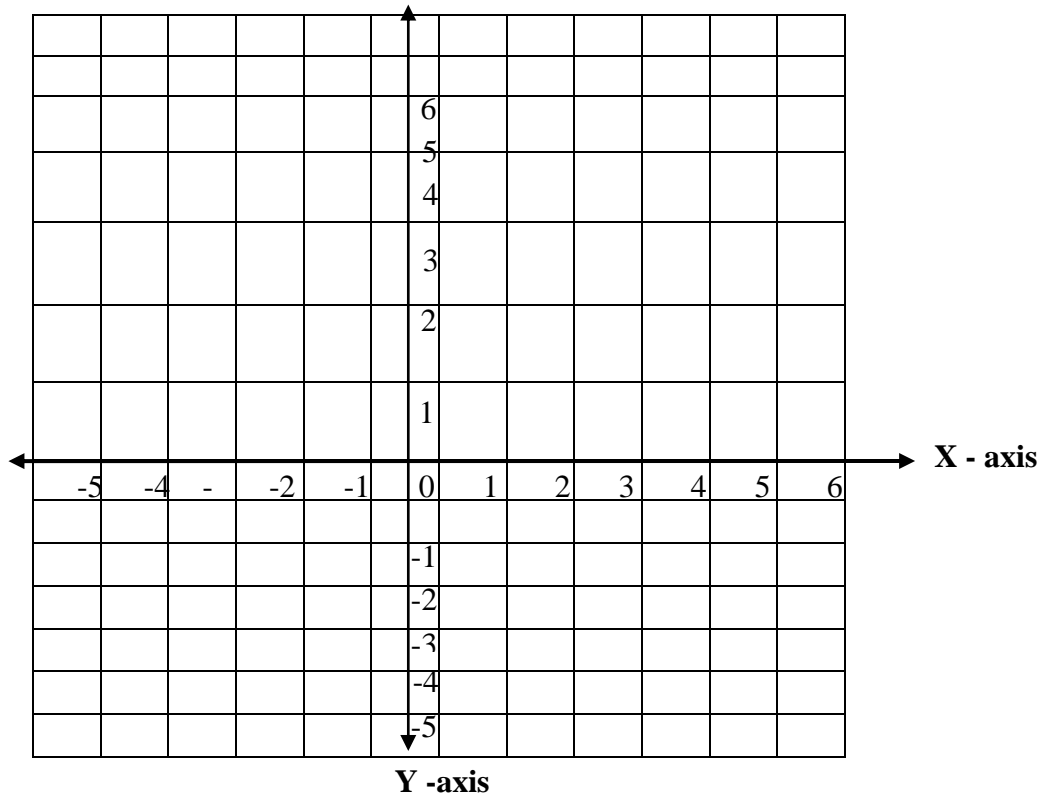
29a) It is 7:30 a.m, What time will it be 9 hours from now? (2 marks)

(b) What integer is 4 steps to the left of +1? (1 mark)



30. Given the points **P**(-1,+5), **Q**(+4, +5), **R**(+1,-3), **S**(-4,-3)

(a) Plot the coordinates in the grid below. (4 marks)



(b) Join points **P** to **Q**, **Q** to **R**, **R** to **S**, **S** to **P**. (1 mark)

(c) Name the area of the figure formed if 1 small square = 1cm<sup>2</sup>. (1 mark)

31. (a) Subtract (3x +5) from (2x +3).

(2 marks)

(b)Solve:  $\frac{2x + 4}{5} - 6 = 0$

*(3 marks)*

32a) A motorist travelled from town **A** to town **B** at 50km/h for 2 hours and then continued to **C** at 120km/h for 30 minutes.

(a) Find the total distance covered for the whole journey. *(3 marks)*

(b) Calculate the average speed of the motorist for the whole journey. *(2 marks)*

**END**