

# PEAK JUNIOR SCHOOL NAKABUGO

## P.7 INTERVIEW EXAMINATIONS

2025

### MATHEMATICS

Time allowed: 2hours 15 minutes



Candidate's name: .....

**Read the following instructions carefully:**

1. This paper has two sections A and B.  
Section A has 50 questions and section B has 5 questions.

2. Answer all questions. All the Working must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink.
4. Unnecessary changes in your work and handwriting may lead to loss of marks.

#### **FOR EXAMINER'S USE ONLY**

SECTIONS	MARKS	COMM.
SEC A		
SEC B		
TOTAL		

5. Do not fill anything in the table indicated "For examiners' use only".

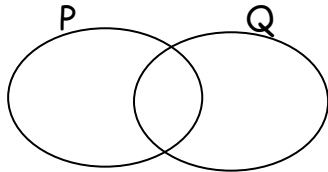
***Turn Over***

**SECTION A: (40 MARKS)**

1. Add:        8 2 6  
              + 1 6 2  
              \_\_\_\_\_  
              \_\_\_\_\_

2. Express 94 in Roman numerals.

3. Shade the region  $Q - P$ .



4. Multiply: 4 2  
              X 3  
              \_\_\_\_\_  
              \_\_\_\_\_

5. What is the square of 16?

6. What number has been expanded to get  $(3 \times 1000) + (5 \times 10) + (8 \times 1)$

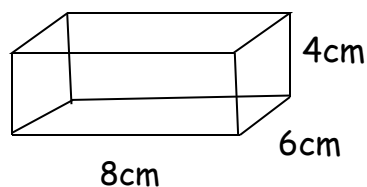
7. Multiply:  $\frac{3}{5} \times \frac{2}{5}$

8. Simplify:  $-6 - -2$

9. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of side 4cm.

10. Ruth drove a car for a distance of 120km in 3 hours. Calculate her average speed.

11. Find the volume of the figure below.



12. Solve for P:  $2p + 5 = 13$

13. Add: HRS                      MIN  
      2                              3 5  
+    1                              4 0  
\_\_\_\_\_  
\_\_\_\_\_

14. Using a dail work out:  $4 + 2 =$  \_\_\_\_\_ (finite 5)

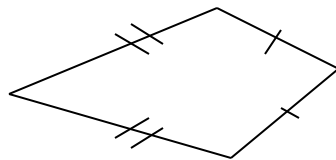
15. Musisi rolled a dice once. What is the probability of an odd number appearing on top?

16. Peter bought a basket of Oranges at sh. 14000. He sold the Oranges and made a profit of sh. 4000. At what price did he sell the oranges?

17. Find the value of abc if  $a = 5$ ,  $b = 3$  and  $c = \frac{1}{5}$

18. How many  $\frac{1}{2}$  litre mugs are in a 10 litre bucket?

19. How many lines of symmetry has the figure below?

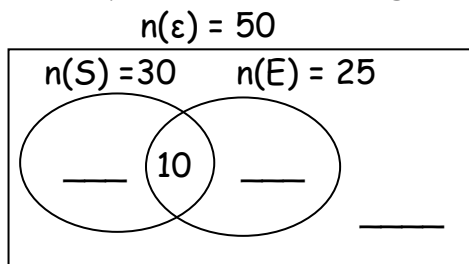


20. Arrange :  $\frac{3}{4}, \frac{2}{3}, \frac{1}{2}$  in ascending order

**SECTION B: (60 Marks)**

21. In a class of 50 pupils, 30 like Science (S), 25 like English (E) , 10 like both subjects and P like neither of the two subjects.

a) Complete the Venn diagram below.



(3 marks)

(b) Find the value of P. (2 marks)

22a). Using a ruler, a pencil and a pair of compasses only construct a regular hexagon using a circle of radius 4cm. *(4 marks)*

(b) Kato is facing south. He turns anti-clockwise to face N.E. Through what angle did he turn? *(2 marks)*

23a). Round off 29.985 to the nearest tenths. *(1 mark)*

(b) Expand 2153 using powers of ten. *(1 mark)*

(c) What is the difference between the value of 4 and value of 9 in 3946? *(2 marks)*

24. Judith scored the following marks in different subjects.

Subject	Marks
MTC	80
ENG	40
S.S.T	50
SCIE	60
R.E	70
LUGANDA	60

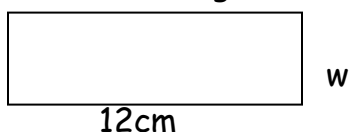
(a) Find her modal mark (1 mark)

(b) Find her range. (1 mark)

(c) Find her average mark. (2 marks)

(d) Find the median. (2marks)

25. The area of the rectangle below is  $60\text{cm}^2$ .



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

(b) Find the perimeter of the rectangle. (2 marks)

26. Musiitwa went to the supermarket with sh. 45000 and bought the following items:

3 kg of rice at sh. 3500 per kg.

2 loaves of bread at sh. 3800 per loaf.

$1\frac{1}{2}$  litres of Jesa milk at sh. 2000 per litre.

500gm of blue band at sh. 6000 per kg.

(a) Find his total expenditure.

*(5 marks)*

(b) Find his balance.

*(1mark)*

27a) Work out:  $\frac{4.8 \times 0.6}{1.6}$

*(3 marks)*

(b) Simplify:  $\frac{1}{3} \times \frac{1}{4} + \frac{1}{2}$

*(2 marks)*



28a). Simplify:  $7x + 8y - 5x + 2y$

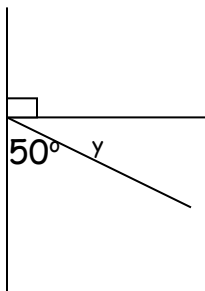
(2 marks)

(b) The sum of three consecutive counting numbers is 21. What are the numbers?  
(3 marks)

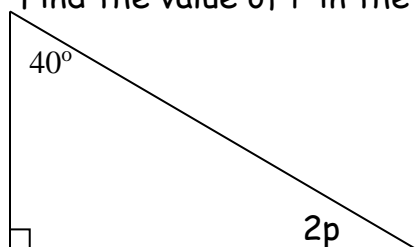
29a) A lesson started at 8:00 a.m and ended at 9:30 a.m. How long did the lesson take?  
(2 marks)

(c) A bus driver drove at 40km/hr for  $2\frac{1}{2}$  hrs. What distance did he cover?  
(2 marks)

30a) What is the size of the angle marked by  $y$  in the figure below?  
(2marks)

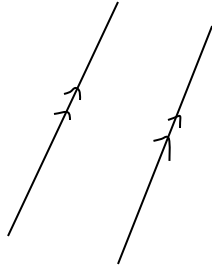


(b) Find the value of  $P$  in the figure below. (2marks)



(d) What special name is given to this pair of lines?

*(1 mark)*



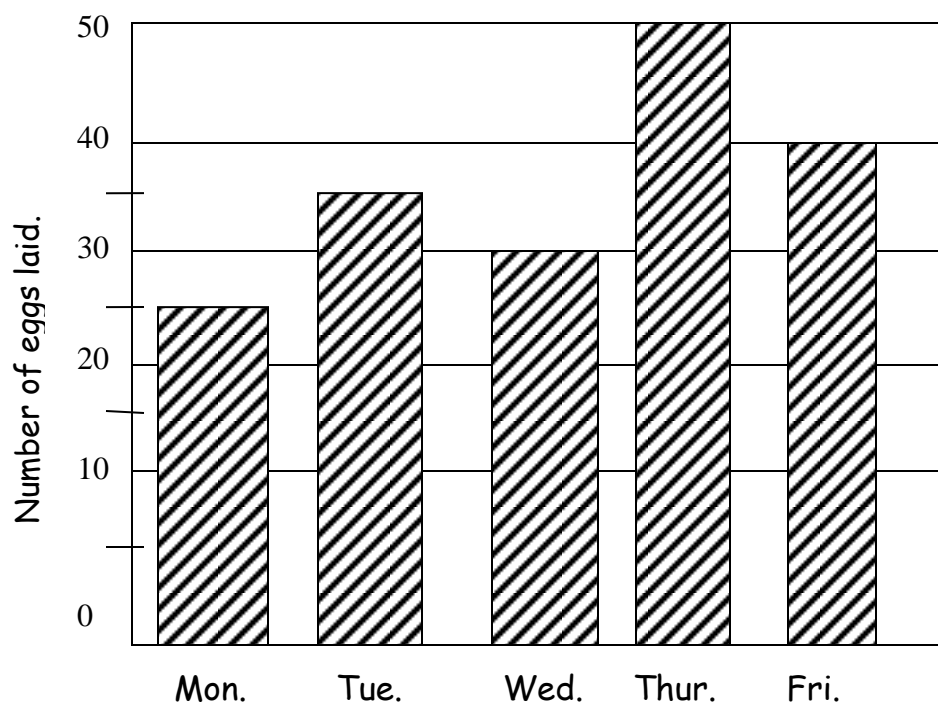
31. On a farm of 300 animals,  $\frac{5}{6}$  of them are cows and the rest are goats.

(a) Find the fraction for goats *(1 mark)*

(b) How many cows are on the farm? *(2 marks)*

(c) How many more cows than goats are on the farm? *(3 marks)*

32. The bar graph below shows the number of eggs laid by chicken in Okello's farm from Monday to Friday. Study it and answer questions that follow.



- (a) On which day were the least number of eggs laid? (1 mark)
- (b) How many eggs were laid on Tuesday? (1 mark)
- (c) Find the total number eggs laid in five days. (1 mark)