



# PEAK JUNIOR SCHOOL NAKABUGO

## P.7 BEGINNING OF TERM I EXAMINATIONS

2025

### MATHEMATICS SET 4

Time allowed: 2hours 30 minutes

Candidate's name: .....

#### Read the following instructions carefully:

1. This paper has two sections A and B.  
Section A has 20 questions and section B has 15 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.

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

#### FOR EXAMINER'S USE ONLY

SECTIONS	MARKS	COMM.
SEC A		
SEC B		
TOTAL		

**Turn Over**

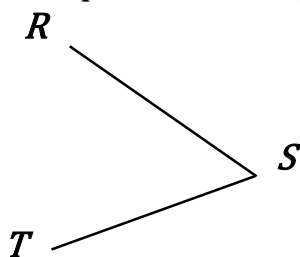
**SECTION A (40 marks)**

**Each question in section A carries 2 marks**

1. Workout  $4 \times 3$  using repeated addition.
  
2. Write **CXCVI** in words.
  
3. Simplify;  $5m - 2w - m - w$ .
  
4. Workout;  $\frac{2}{3} \div 1\frac{1}{3}$
  
5. Find the square of the next number in the sequence.  
2, 3, 5, 7, .....
  
6. Change 250 milliliters into liters.

7. Given that  $PUQ = \{a, b, c, d, e, f, i, o, u\}$ ,  $Q = \{\text{all vowel letters}\}$   
 $Q \cap P = \{a, e\}$  and  $P = \{b, c, d, f\}$ . Find  $n(P)$ .
8. The height of different sticks is as follows; 20cm, 70cm, 1.3cm, and 11cm.  
Find the median height.
9. Round off 79 to the nearest tens using a number line.

10. Using a pair of compasses, a sharp pencil and a ruler, bisect angle  $RST$ .



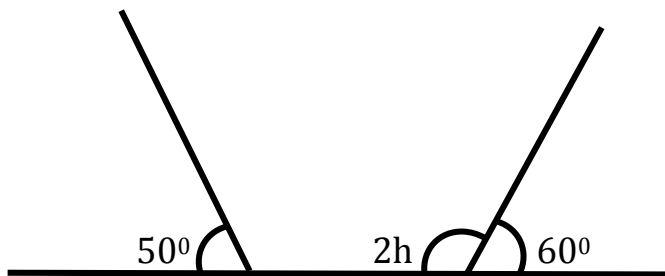
11. It started raining at **9:00 a.m** and ended at **1:50 p.m**. How long did it rain?

12. Solve for  $k$ ;  $18 = 2k - 2$

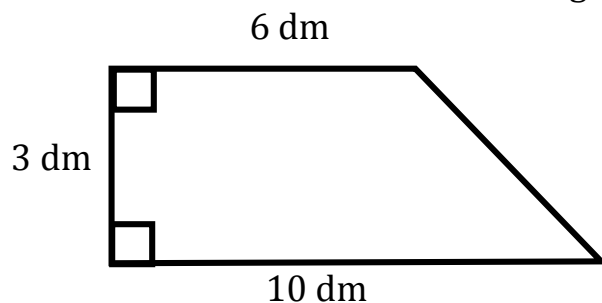
13. Decrease sh. 5,000 by 20%.

14. Express  $32_{\text{five}}$  as a denary base.

15. Find the value of  $h$  in the figure below.



16. The cost of 1kg of Groundnuts is sh. 6,500. How much will one pay for 1500grammes of G. nuts at the same price?
17. A car covered a distance of 60km using the speed of 80km/h. Calculate the time it took to cover that journey.
18. Sandra tossed a die once. Find the probability that the number which appeared on top is a composite number.
19. Find the total distance round the figure below.



20. Expand 40032 using exponents.

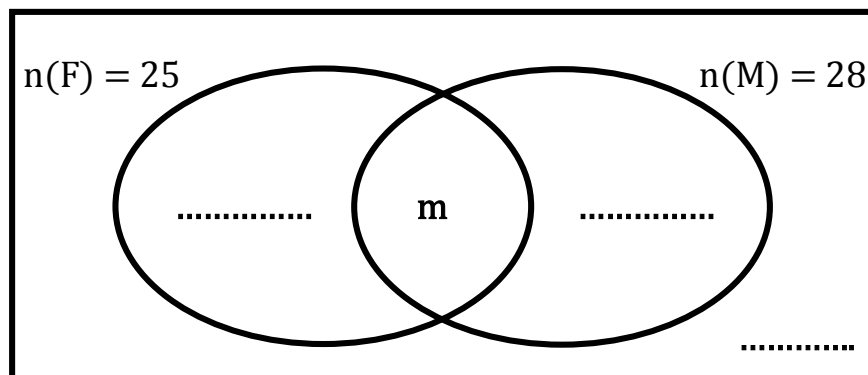
**SECTION B (60 marks)**

**Marks for each question is indicated in brackets.**

21. In a class of 50 pupils, 28 like meat (M), 25 like fish (F),  $m$  like both meat and fish while 3 do not like any of the above.

a) Use the information above to complete the venn diagram below.

**(3 marks)**



b) Find the value of  $m$ .

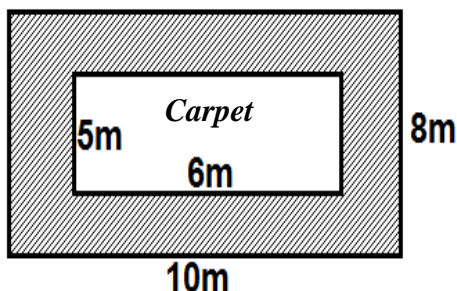
**(2 marks)**

c) What is the probability that a pupil picked at random in the class likes fish only?

**(2 marks)**

22. A carpet was put on the floor in a room as shown below. Calculate the area not covered by the carpet.

**(3 marks)**



23. The sum of three consecutive natural numbers is 36. If the smallest number is  $k - 2$ .

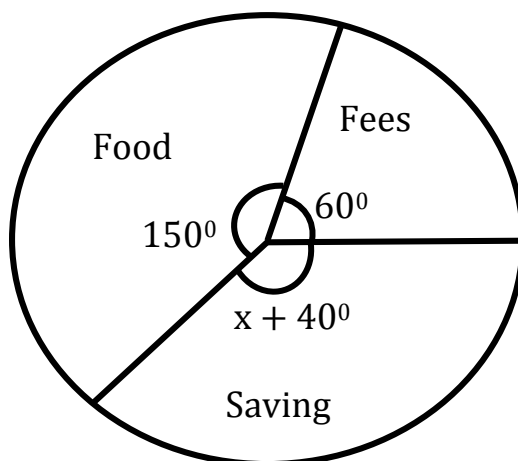
a) Find the value of  $k$ . *(3 marks)*

b) Write the middle number in Roman Numerals. *(2 marks)*

24. With the help of a well sharpened pencil, a ruler and a pair of compasses only, construct a triangle  $MKL$  where  $KL$  is  $8cm$ , angle  $MKL = 60^\circ$  and angle  $LMK = 75^\circ$ . Drop a perpendicular from  $M$  to meet  $KL$  at  $B$ .

*(6 marks)*

25. The pie chart below shows how a family spends its income.



a) Find the value of  $x$ .

*(2 marks)*

b) If the family spends sh. 24,000 on fees, find the family's total income.

*(3 marks)*

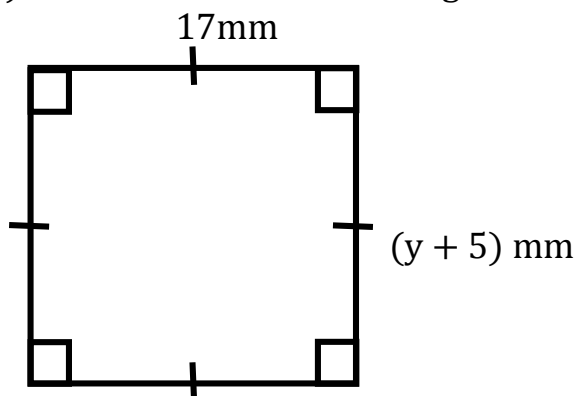


26. (a) Convert  $0.04\text{km}^2$  into  $\text{m}^2$ .

(2 marks)

(b) Calculate the area of the figure below

(3 marks)



27. The table below shows the marks obtained by pupils in an exercise that was marked out of 10.

a) Complete the table below.

(3 marks)

Marks scored	Number of pupils	Total marks
4	5	20
6	2	.....
.....	5	35
9	.....	63
10	1	10

b) Calculate the mean mark.

(2 marks)

28. Amira is 15 years older than Arnold, five years ago Amira was four times as old as Arnold.

a) How old is Arnold? *(3 marks)*

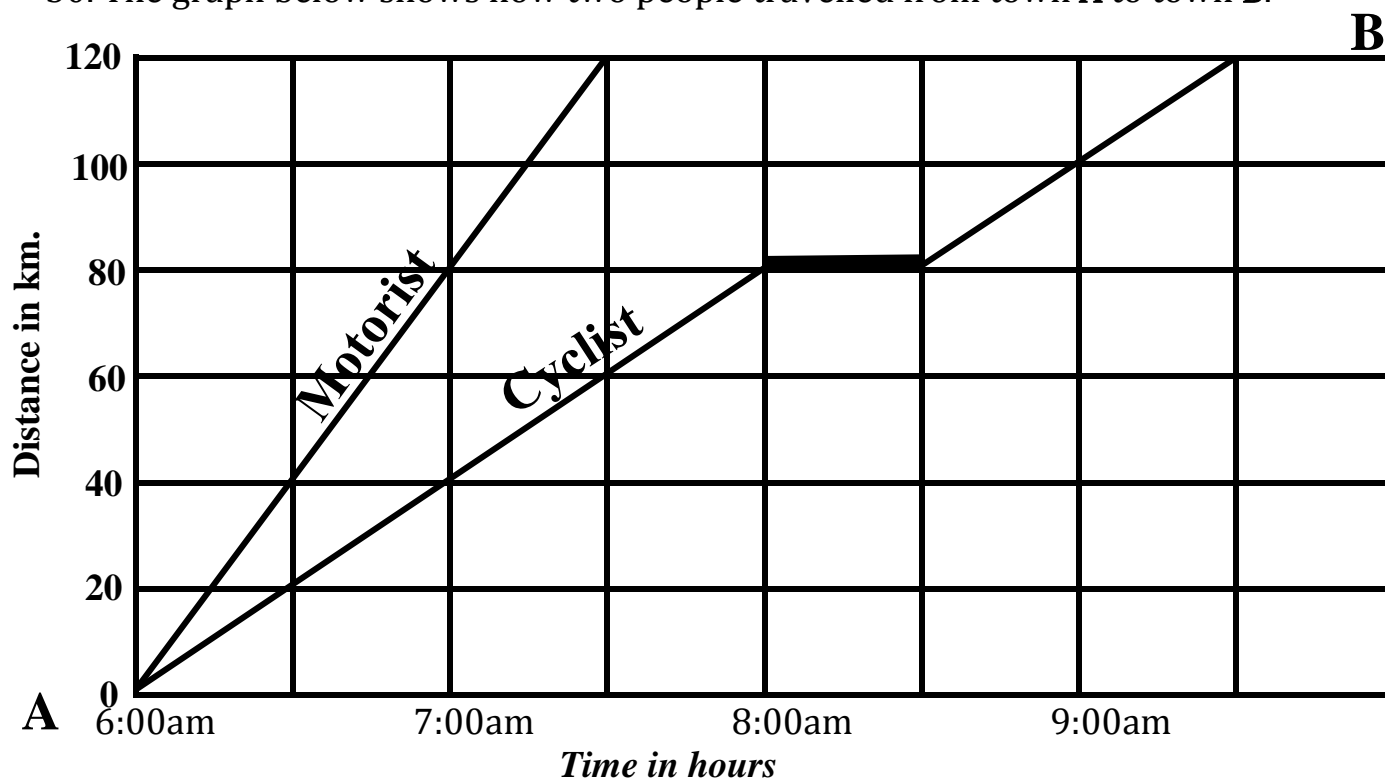
b) How old was Amira 5 years ago? *(2 marks)*

29. (a) Find the additive inverse of  $-8$ . *(1 mark)*

(b) Workout;  $3 \times 4$  using a number line. *(2 marks)*

(c) The temperature on the top of a mountain was  $-14^{\circ}\text{C}$  at night but by morning, it had increased to  $10^{\circ}\text{C}$ . Find the rise in the temperature. *(2 marks)*

30. The graph below shows how two people travelled from town A to town B.



a) At what time did the two people start their journey? *(1 mark)*

b) How long did the cyclist take travelling? *(2 marks)*

c) At what speed was the motorist moving? *(2 marks)*

31. (a) Write 521.123 in expanded form using place values. *(1 mark)*

(b) Simplify;  $\frac{0.045 \times 2.6}{1.8}$  *(2 marks)*

(c) Workout;  $\frac{1}{2} + \frac{2}{5} \times \frac{1}{3}$  *(2 marks)*

32. The rates at which the bank buys and sells United states dollars and Kenya shillings are given in the table below.

Currency	Buying	Selling
1 US Dollar	Ush. 3500	Ush. 3600
1 Kenya shilling	Ush. 30	Ush. 35

If a trader had 300 dollars and 500 Kenya shillings, how much money in Uganda shillings can he get from the bank? *(4 marks)*



BY TR. BABEL

TEL. 0758160040