PACE - **P**REPARE **A** CHILD **E**XAMINATIONS BOARD

P.7 PRE-MOCK EXAMINATION SET FOUR

2025

MATHEMATICS

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instruction 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 **15 printed pages** altogether.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided. No calculator use.
4. All working **must** be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN.NO.	**MARKS**	**EXR'S NO.**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 32		
TOTAL		

 Turn Over

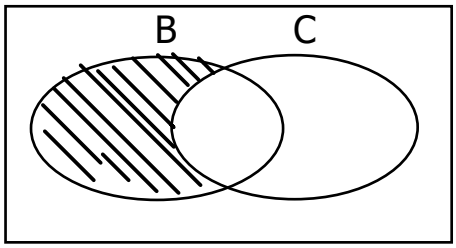
SECTION A: 40 MARKS

Answer **all** *questions in this section*
Questions **1** to **40** carry one mark each.

1. Work out: 384 × 4

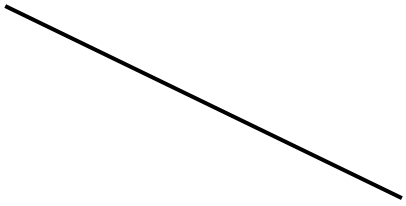
2. Write 56.86 in words.

3. In the Venn diagram, describe the shaded region.



4. Simplify: 2(3a – 2) – (a – 3)

5. Using a pair of compasses, ruler and a sharp only. Bisect the line below.



6. Write 444 in Roman numerals.

7. Find the numerical place value of 4 in 423_{five}

8. Nakalema bought $\frac{5}{8}$ kg of rice to make rice balls. Each rice ball requires 25 grams. Find the number of rice ball she made.

9. Work out: 0.9 + 1.25 ÷ 0.05

10. Round off 49.746 to nearest ones place.

11. Ampeire scored the following marks in her homework.

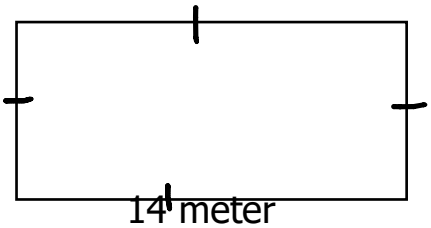
8, 8, 4, 7, 9, 12

How many times did she score her average?

12. Simplify: $3\frac{1}{2} : 2\frac{1}{3}$ to its simplest form.

13. The square of the number is $6\frac{1}{4}$. Find the number.

14. The perimeter of the figure below is 42 metres. Find its width.

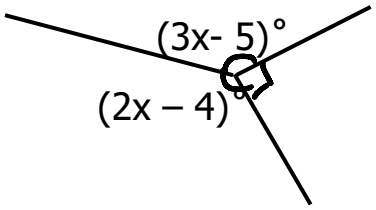


15. Work out (33x4) – (4x17) using common factor property.

16. Find the average speed in m/s for a lorry that cavers a distance of 280km/h for 2 ½ hours.

17. Today is Thursday, 9th July 2025. What day of the week will it be on 5th September?

18. Find the size of the angle x.



19. A trader made a loss of 9% on a dozen of note books he sold at sh. 22,750 each. Find the unit cost of each note book.

20. A minute hand rested at 20 minutes. Find the size of the angle (turn) it made.

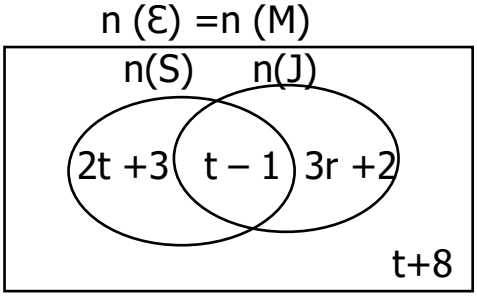
SECTION B: 60 MARKS

There are ***12*** questions in this section.

Answer **all** questions in this section.

Marks for each question is indicated in bracket.

21. In the Bagadisa's birthday party, all candidates were served with mineral water (M). They were served with soda(S) and juice (J) as shown in the Venn diagram below.



a) If the number of those who took mineral water only was twice the number those who took all three drinks, find the value of t.

(02 marks)

b) A pupil was picked at random, find the probability that a pupil picked took only two type of drinks.

(02 marks)

22. Nakalyango sells mangoes in heaps of five and eights. A heap of five mangoes costs sh 1,500 and a heap of eights costs sh.2, 000. She had 18 heaps of fives and the remaining in heaps of eights. She sold all at sh 113,000.

a) Find the total of mangoes she sold *(04 marks)*

b) If she bought each mango at sh.1,000 find the profit she made *(02 marks)*

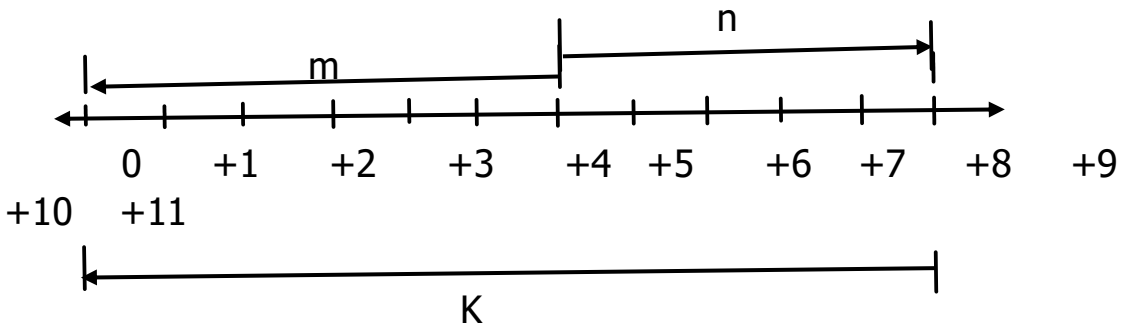
23. Using a pair of compasses, ruler and a sharp pencil only

a) Construct a quadrilateral KJRS where KJ =RS = 7cm and JR =KS = 4cm and the angle KJR =120°.

(04 marks)

b) Drop a perpendicular line from R to meet line KJ at Q and measure height of the quadrilateral …….
(01 marks)

24. The figure below shows a number line. Study it carefully and answer the questions that follow.



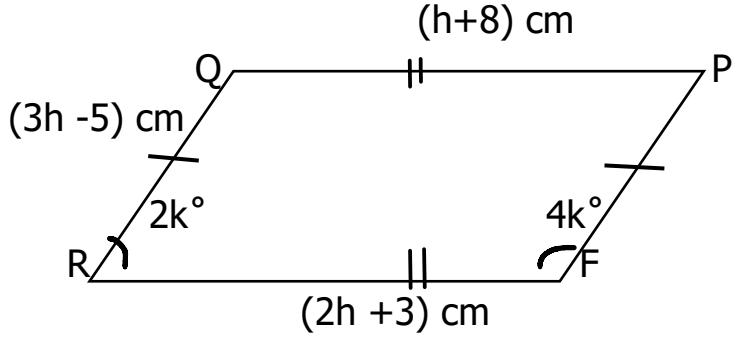
a) Simplify: m – n *(02 marks)*

b) Write the mathematical sentence for the number line above
(02 marks)

25. a) solve for w: 2(w+1) – 3(2w-1) = -3 *(02 marks)*

b) Work out the value of m: $\frac{1}{4}m + 5 = 3(finite\ 7)$ *(03 marks)*

26. Use the figure below to answer the questions that follow.



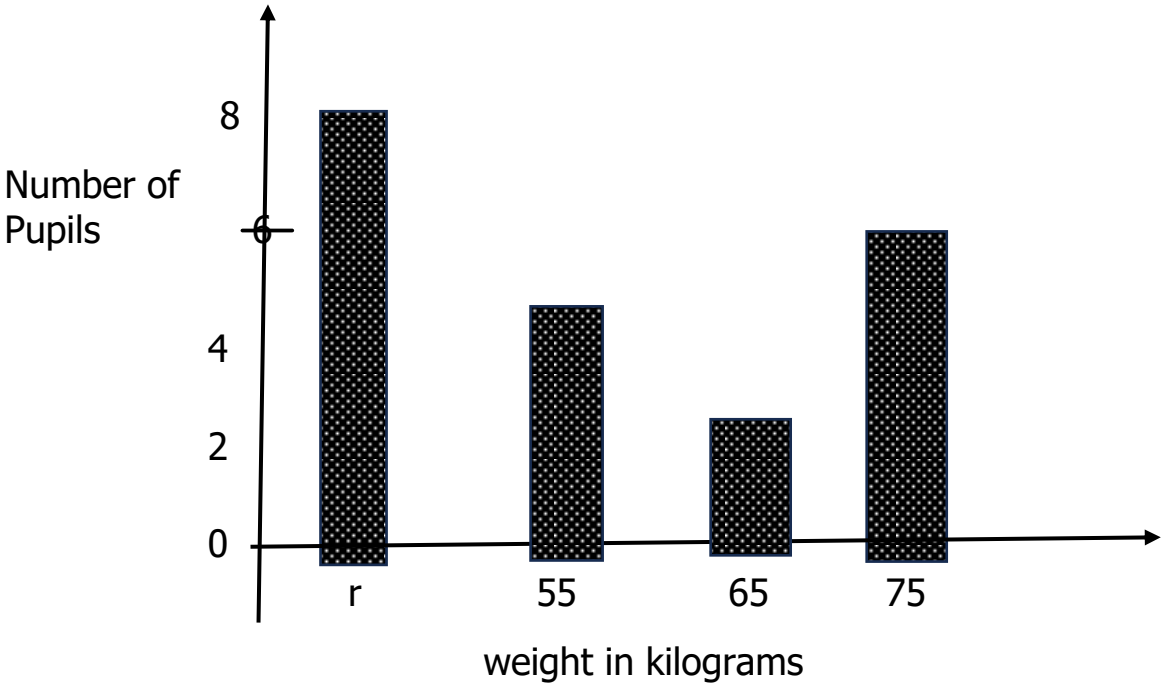
a) Find the value of k. (02 marks)

b) Work out the size of angle QPF *(02 marks)*

c) Find the perimeter of the figure QPRF *(03 marks)*

27. A car that is 300metres long covered a distance of 53.7km from 12:30 p.m. to 2:00 p.m. Calculate the speed of the car in m/s.
(04 marks)

28. The graph below shows the number of pupils who were measured during nutritional day. Use it to answer the questions that follow.



a) Find the number of pupils who were measured. *(02 marks)*

b) The mean weight of all pupils measured was 60, find the value of r.

(03 marks)

29. The sum of first three consecutive odd numbers is 99.

a) Find the largest number. *(04 marks*)

b) Work out the product the first two numbers using lattice multiplication.

(02 marks

30. Find the deposited needed in the bank to make an amount of sh.752, 000 in 4months at a rate of $13\frac{1}{3}\%$ per annum.

(05 marks)

31. A circular flower garden was to be fenced using 11 poles at an interval of 4metres apart.

a) Find the perimeter of the garden. *(03 marks)*

b) Calculate the radius of the flower garden. (use $\pi = \frac{22}{7}$) *(02 marks)*

32. a) Evaluate $123_{five} \times 112_{five}$ (03 marks)

b) Find the value of 2 in 231_{six}

PACE Examinations Board wishes you success