

THE PEARL EXAMS 2024

TEST II EXAMINATIONS 2024

CLASS : P.6

SUBJECT : MATHEMATICS

DURATION: 2 HOURS 30 MINUTES

Student's Name

Student's Signature

SCHOOL:

DISTRICT:

Read the following instructions carefully

1. This paper has **two** Sections: **A** and **B**.
2. Section **A** has 20 answer questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. Answers to both sections must be written in the spaces provided.
5. All answers must be written using blue ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the box indicated for examiner's use only.

SECTION A (20 QUESTIONS - 40 MARKS)

1. Multiply: 16 by 2

2. What is the place value of 3 in the number 53641.

3. Given that set $A = \{1, 3, 4, 7, 8\}$
Find $n(A)$

4. Reduce $\frac{12}{18}$ to the lowest terms.

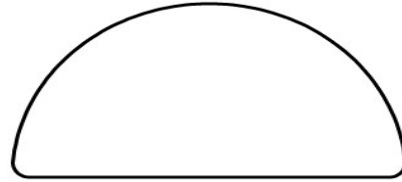
5. Give the numbers 3, 9, 2, 12, 6 and 5.
Work out their range.

6. Write 2547 in words

7. Find the range of the following numbers; 2, -8, 10, 7, 9.

8. Okello had $\frac{3}{4}$ of a cake, he ate $\frac{1}{3}$ of it for lunch. Work out the fraction that remained.

9. On the shape below, show by drawing the number of lines of symmetry.



10. Work out the next number in the sequence;

18, 16, 15, 13, 12, _____

11. A crate of soda carries 24 bottles, how many bottles can be got from 8 crates of soda?

12. Andrew, Simon and Robert equally shared 2400, how much did each get?

13. Solve the equations $\frac{x}{2} = 10$

14. Find the next number in the sequence,
1, 8, 27, 64, 125,

15. James went to bed at 7:30p.m in the evening, he woke up after 35 minutes at what time did he woke up?

16. What number has been expanded to give;
 $(8 \times 10^3) + (8 \times 10^1) + (8 \times 10^0)$

17. Find the square root of 36.

18. Given that $p = 4$, $a = 5$ and $n = 2$. Find the value of $an + p$.

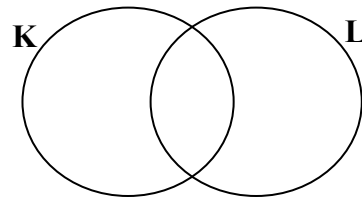
19. Using a ruler and a pair of compasses, construct an angle of 60° .

20. If set $P = \{1, 3, 5, 7\}$, Calculate the number of subsets that can be got from set P.

SECTION B

21. Given that set $K = \{1, 3, 5, 7, 9\}$
 $N = \{2, 3, 5, 7, 11\}$

a) Represent the above information on the Venn diagram below. (2 marks)



b) Find (i) $K \cap L$ (1 mark)

c) Find $n(K \cup L)$ (1 mark)

d) List the members of $K - L$ (1 mark)

22. In a choir of 30 people, $\frac{3}{5}$ of them are males and the rest are females.
a) How many females are in the village? (3 marks)

b) How many more males than females are there in the village? (2 marks)

23. Below are price tags of items in a shop.

Milk 2000/= Per Litre	Bread 3500/=a loaf
Beans 900/= per kg	Sugar 2500/= a kg

Apio bought the following items from the shop;-

1 litre of milk, 2 loaves of bread, $\frac{1}{2}$ kg of beans.

a) How much did she pay for the three items altogether? (4 marks)

b) If she gave a twenty thousand shilling note to a shopkeeper, how much money did she get as balance? (2 marks)

24. Using a ruler and a pair of compass, construct an equilateral triangle of side 5cm (4 marks)

25. a) Gogonya village has a population of 65, 759 people, of these 11, 625 are adults, how many children are in Gogonya village (2 marks)

b) How many more children are there than adults? (2 marks)

26. (a) Prime factorise 24 and show its factors using subscripts. (2 marks)

b) What number has been factorised to give $\{3_1, 3_2, 2_1\}$ (1 mark)

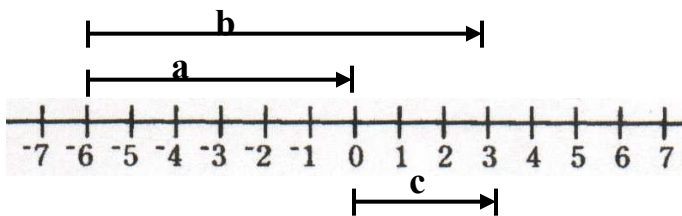
27. If $p = 3$, $q = 4$ and $r = 5$, find the value of the following; (2 marks @)

a) $\frac{q+r}{p}$

b) $r^2 - q^2$

c) $4p - 2r$

28. Drawn below is a numberline, use it to answer the questions that follow.



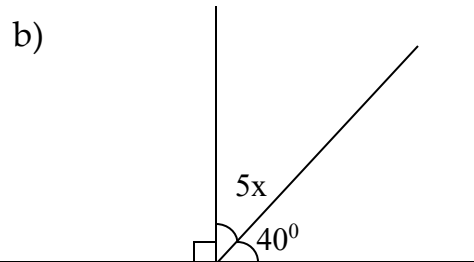
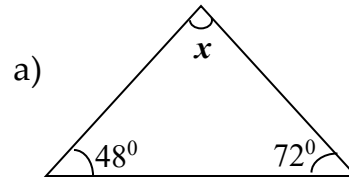
Write down the integers shown by (1 mark @)

a) _____

b) _____

c) _____

29. Work out the values of the missing letters in the figures below. (2 marks @)



c) Find the supplement of 120°

30. A matatu carries 60 trays of eggs in a trip. Each tray contains 30 eggs.

a) How many eggs does this car carry in one trip? (2 marks)

b) If the car makes 3 trips, how many eggs will it have carried? (2 marks)

31. (a) Given the number, 65289, find the value of digit 2. (2 marks)

(b Find the sum of the value of 5 and the place value of 8. (3 marks)

(c) Find the place value of 4 in 36.146. (1 marks)

32. Nkalidde scored the following marks in seven tests. (2 marks @)

75, 80, 70, 90, 60, 55, 60

a) Find the mode.

c) What was the median

b) Work out his mean.

d) What was the range?