

SIR APOLLO KAGGWA SCHOOLS SINCE 1996
PLE PREP TEST IV TERM 2 2022
PRIMARY SEVEN
MATHEMATICS

Time allowed: 2 hours 30 minutes

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Candidate's Name: _____

Candidate's Signature: _____

District Name: _____

School Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or 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 boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY		
Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn over

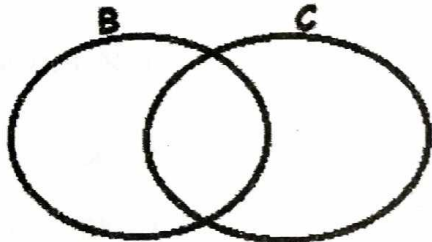
SECTION A (40 MARKS)

1. Work out: $36 \div 3$

2. Write 1,019 in words.

3. Solve: $y - 4 = 5$ (finite 7)

4. In the Venn diagram below, shade the region representing the elements of set C only.



5. Work out: $1011_{\text{two}} + 111_{\text{two}}$

6. Write $\frac{1}{8}$ as a decimal.

Using a ruler, a pencil and a protractor only, draw an angle of 85° in the space below.

8. Change 3.5m^2 to cm^2 .

9. The table below shows the attendance of pupils in a P.7 class on a certain day. Use tallies to complete the table below.

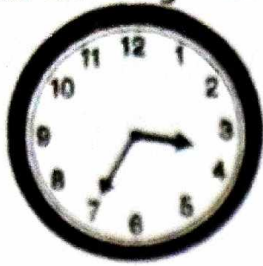
		tally
boys	12	_____
girls	18	_____

10. Express $8:55\text{p.m}$ in the 24-hour clock.

11. Solve the equation: $4(b + 6) = 28$

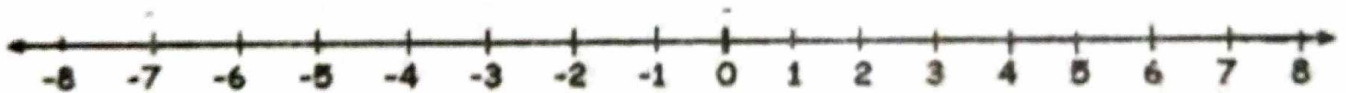
12. By selling a mobile phone for sh. 350,000, Munene made a loss of sh. 28,000. How much had he bought the phone?
13. A girl faces north east and turns in an anticlockwise direction through an angle of 135° . In which direction does she face?
14. Simplify: $\frac{n^5 \times n^4}{n^6}$
15. Solve the inequality: $\frac{4}{5}m - 3 \leq 9$
16. Four metres of cloth cost sh. 18,000. What will 10 metres cost?

What morning time is shown on the clock face below?



18. The **Greatest Common Factor (G.C.F)** of two numbers is 4. If the numbers are 16 and g and their **Lowest Common Multiple (L.C.M)** is 48, find the value of g .

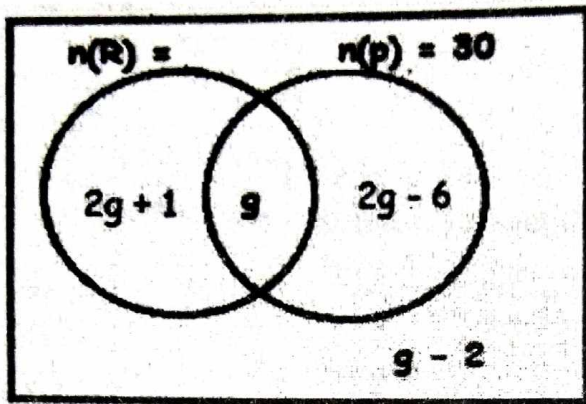
19. Work out 2×-3 using the number line below.



20. The mean cost of 4 books was sh. 1,800. After buying the fifth book, the mean cost became sh. 2,400. What was the cost of the fifth book?

SECTION B: (60Marks)

21. The Venn diagram below shows the number of pupils in a class. Some like posho (P) while others like rice (R). use it to answer the questions that follow.



- a) Find the value of g . (2marks)
- b) Find the total number of pupils in this class. (2marks)
- c) If a pupil is picked at random, what is the probability that the pupil picked does not like posho at all. (2marks)

22. Given that $105_n = 86_{ten}$, find the value of n .

(4marks)

23. A motorist leaves town A and travels for 2 hours at an average speed of 56km per hour to town B. He then travels from town B to town C a distance of 315km at an average speed of 63km per hour.

a) How far is town C from town A?

(2marks)

b) Calculate the average speed of the motorist for the whole journey. (3marks)

24. In Kololo Primary School two bells are rung at different intervals of 30 minutes and 40 minutes. If they are rung together at 7:10am, at what time will they be rung together again? (4marks)

25. Nakato went to the market and bought the following items.

- 3 bars of soap at sh. 6500 per bar.
- $2\frac{1}{2}$ kg of rice at sh. 6000 per kg.
- 400ml of milk at sh. 3000 per litre
- 20 mangoes at sh. 250 per mango.

a) Find Nakato's total expenditure.

(5marks)

b) If she remained with sh. 2,600, how much did she have at first?

(1mark)

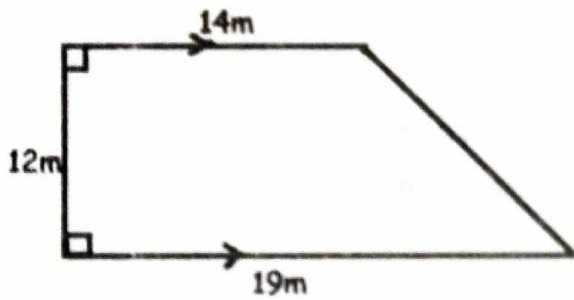
26a) Work out: $3.02 - 4.75 + 2.07$

(2marks)

b) Work out: $\frac{0.048 \times 0.75}{0.15 \times 0.16}$

(3marks)

27. Study the figure below and use it to answer questions that follow.



a) Calculate the area of the figure.

(2marks)

b) Work out the perimeter of the figure.

(3marks)

28. Rehema, Enock and Hamza shared some money in the ratio 3:5:7 respectively.

Enock got sh. 20,000.

a) How much money did they share altogether?

(2marks)

b) How much more money did Hamza get than Rehema?

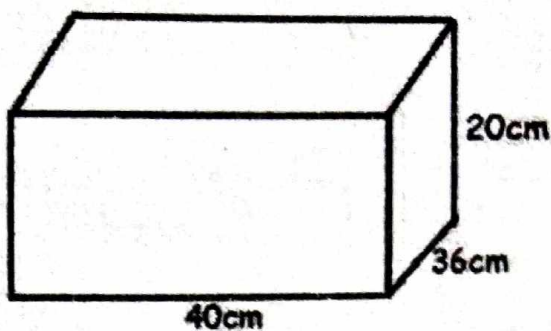
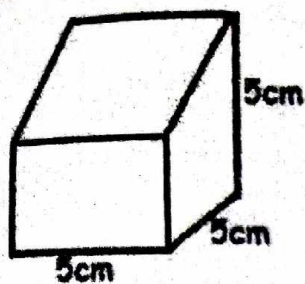
(3marks)

29a) Using a pair of compasses, a pencil and a ruler only, construct a parallelogram, **ABCD** in which **BC = 7cm**, **AB = 5cm** and angle **ABC = 60°**. (4marks)

b) Measure the length of diagonal **BD**.

(1mark)

30. Packets each measuring 5cm by 5cm by 5cm are to be packed in a carton 40cm long, 36cm wide and 20cm high.

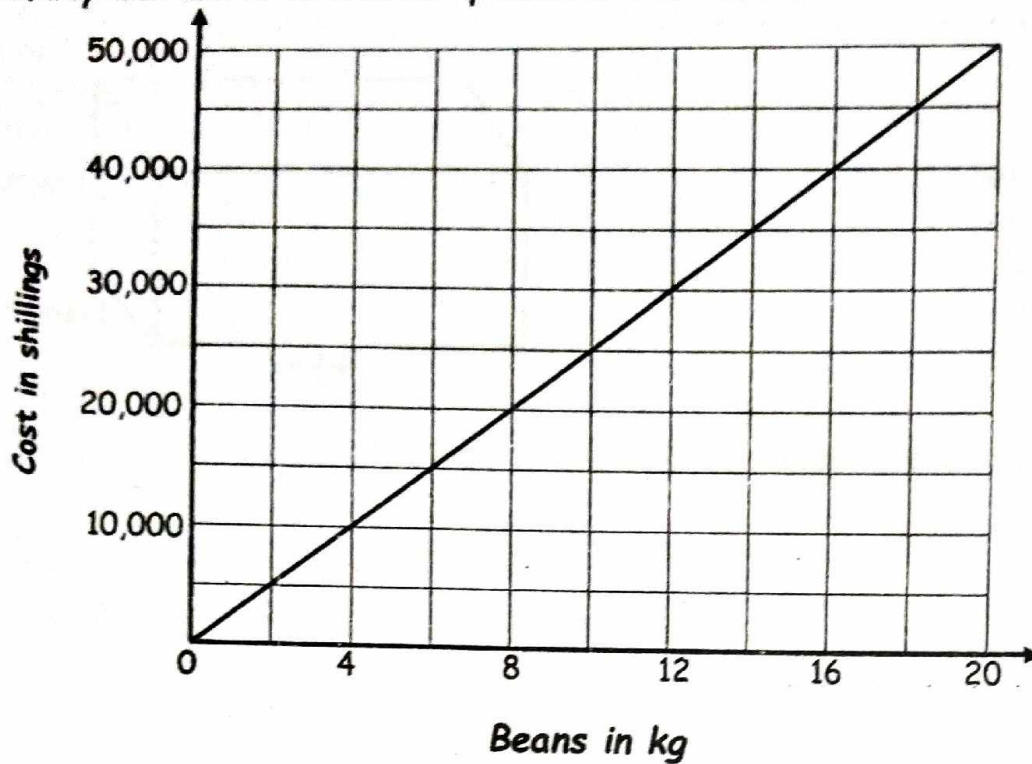


(a) How many packets can be packed in the carton? (2marks)

b) Calculate the volume of the space left empty after the packets have been packed in the carton. (3marks)

31. Peter bought 5 books at sh. $(k + 400)$ each and 3 pencils at sh. $(k - 200)$ each. Find the cost of all the books if he spent sh. 5400 altogether. (4marks)

12. The line graph below represents the cost of beans per kg. study the graph carefully and use it to answer questions that follow.



- i) What is the cost of 12kg of beans? (1mark)

- ii) How many kilograms of beans would one get for sh. 40,000? (1mark)

- iii) Find the cost of 10kg of beans. (2marks)

- iv) How many kilograms of beans can you buy for shs. 17,500? (2marks)

THE END