

SIR APOLLO KAGGWA SCHOOLS SINCE 1996

PLE PREP TEST I TERM 1 2023

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 30 minutes

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: 3 5 6

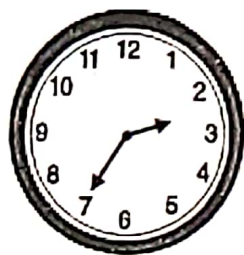
$$\begin{array}{r} 356 \\ +143 \\ \hline 499 \\ \hline \end{array}$$

2. Write in words: 169, 084

3. Given that $a = 3$, $b = -4$ and $c = 5$. Find the value of $c(b^2 + a)$

4. Round off 3672 to the nearest hundreds.

5. What afternoon time is shown on the clock face below?



6. Find the next number in the sequence:

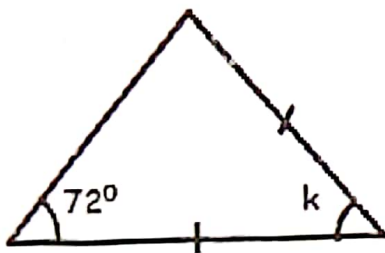
1, 3, 6, 11, 18, _____

7. Work out: $3\frac{1}{4} + \frac{4}{5}$

8. Find the GCF of 12 and 18.

9. Simplify: $-3 - -8$

10. Find the size of the angle marked K.



11. Work out: $3 - 5 = y$ (finite 6)

12. Increase 960kg in the ratio of 9:8.

13. Given that set $Q = \{ a, b, c \}$. How many subsets are in set Q ?

14. Solve: $3(n - 1) = 6$

15. If  represents 12 balls, draw such pictures to represent 60 balls.

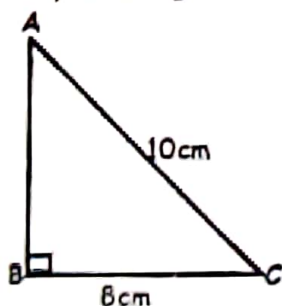
16. Work out $(17 \div 5) + (13 \div 5)$ using distributive property.

17. Using a ruler and a pair of compasses, construct an angle of 120° in the space provided below.

18. A trader sold a dress at sh. 63,000 and made a loss of sh. 7000. Calculate the cost price of the dress.

19. Convert 8500gm of sugar to kilogrammes.

20. Study the figure below and use it to find the length of \overline{AB}



SECTION B (60 MARKS)

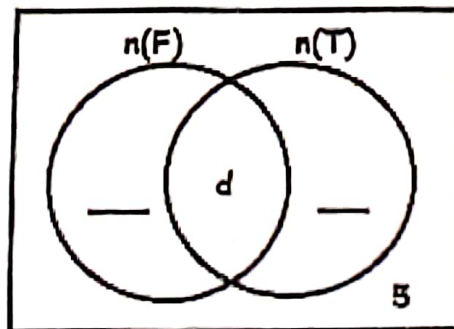
21a) Convert 19_{ten} to binary base.

b) Given that $52_p = 200_{\text{four}}$, find the value of p .

22. In a group of 36 people, 21 play football (F), 19 play Tennis (T), d play both games while 5 play other games.

a) Use the above information to complete the Venn diagram.

$$n(\Sigma) = 36$$



b) Find the value of d .

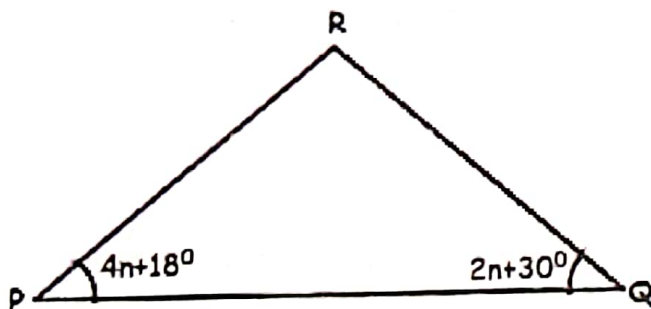
- c) If a person is picked at random, find the probability that he/she plays one game.

23. In a Primary School, two bells ring at intervals of 30 minutes and 40 minutes for lower and upper primary respectively.

- a) After how long will the two bells ring together?

- b) If they are first rung together at 8:30a.m, at what time do they ring together again?

24. In the triangle below, angle $QPR = 50^\circ$.



- a) Find the value of n .

b) Work out the size of angle PRQ.

25. A maid went shopping and bought the following items;

3kg of rice at sh. 4800 per kg.

1 $\frac{1}{2}$ litres of milk at sh. 2400 per litre.

750gm of meat at sh. 14000 per kg.

4 packets of omo at sh. 2000

a) Calculate her total expenditure.

b) If she was given a change of sh. 19,500, how much money did she have before?

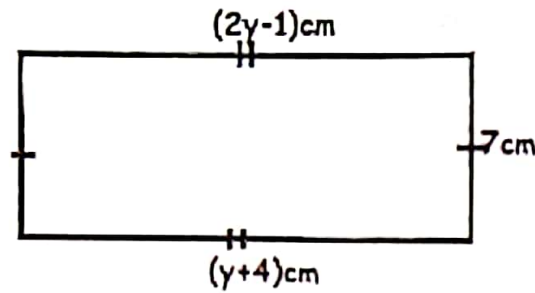
26a) Using a ruler and a pair of compasses, construct a triangle ABC , where $AB = 6\text{cm}$, $BC = 5\text{cm}$ and angle $ABC = 60^\circ$.

b) Measure angle ACB .

27a) Simplify: $\frac{3}{4} - \frac{2}{3} \times \frac{1}{2}$

b) Work out: $\frac{0.48 \times 0.12}{0.06 \times 0.4}$

28. Study the rectangle below and use it to answer the questions that follow.



a) Find the value of y .

b) Calculate its area.

29. Amos is 18 years younger than Timothy. Their total age is 60 years.

a) How old is Amos?

b) Find Timothy's age in 12 years' time.

30a) A staff meeting that lasted 55 minutes ended at 11:20a.m. At what time did it start?

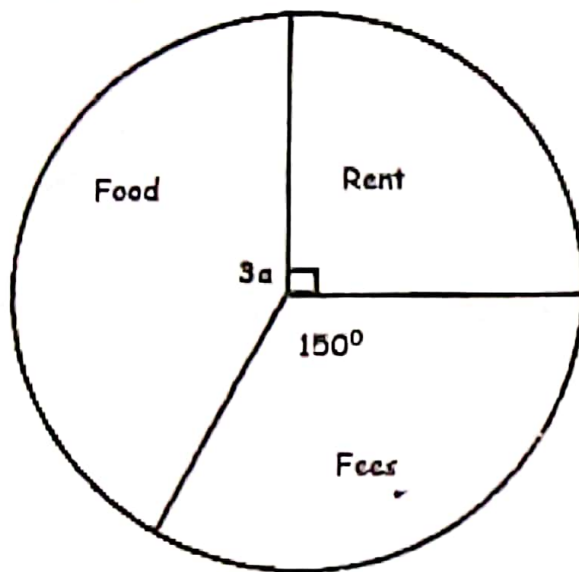
b) A motorist covered 100km in 150minutes. Calculate the motorist's average speed in km/h.

31. Martha used $\frac{1}{5}$ of her pocket money on buying books, $\frac{1}{3}$ on sweets and saved the rest.

a) What fraction of her money did she save?

b) If she saved sh. 49,000, how much money did she have?

32. The circle graph below shows how Mr. Opolot spends his monthly income of sh. 720,000.



- a) Find the value of a .
- b) How much more money is spent on fees than on food?
- c) Express the amount of money spent on rent as a percentage of the monthly income.

THE END