

PERFECT EDUCATION SERVICES - KAMPALA

PRIMARY SEVEN PRE PLE SET THREE EXAMINATIONS 2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

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1. Workout: 36 + 53				2. Simplify: 9mn - 7ab - 11mn + 4ab									
3. Write the maclock face be system	ornin elow	in 2	ne sh 4 ho	own (on th	e				sum of the		nd 6 ^{tt}	1
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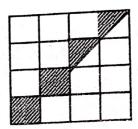
- **5.** Express **0.1666**.....as a common fraction
- 6. Using a ruler, a pencil and a pair of compasses only, construct an angle of 105° in the space provided below

7. Write 196 in Roman numerals

8. Given that set P has 63 proper subsets, find the number of elements in set P.

9. Simplify: 7° + 7³

10.What fraction of the figure below is unshaded,



- 11. If a = -8, b = -6 and c = -2, find the value of $c(a+b^2)$
- **12.**What number has been expanded to give;

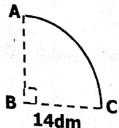
$$(2x10^{-2}) + (5x10^{2}) + (7x10^{-1}) + (3x10^{0})$$
?

- **13.**The cock was giving $\frac{1}{4}$ of a big chapat to every pupil during break time. If the cock gave out **16** chapats, how many pupils did he serve?
- 14. The centre angle of a regular pentagon is 3k+24°. Find the value of k.

15.Complete the table below.

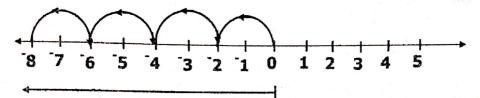
Number		23
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16.Find the length of the arc in the figure below. •



- 17.Workout average of 4+6p, 2p, 7 and5. find the value of p
- **18.**Find the Greatest Common Divisor (GCF) of **12** and **18**.

19. Write the mathematical statement shown by the number line below.



20. Joan bought **2** dozens of pencil each at **sh. 4800** and later sold each pencil at **sh. 350**. Find the loss she made from the sale of all the pencils.

SECTION B

- 21.During a picnic, all the 39 boys ate chicken (C), (K+3) ate chicken and meat (M) only, (5K-11) ate chicken and fish (F), K boys ate all the three snacks and 5 boys ate only chicken.
- a) Use the information given above to complete the venn diagram below.

(3 marks)

ξ = (K) _____ Find the value of K.

(2 marks)

22.a) Workout 123_{five} - 24_{five} and represent the result on an abacus

(3 marks)

b) Change 1101_{two} to a decimal base.

(2 marks)

23.a) Increase **sh. 30,000** by **16** $\frac{2}{3}$ %

(2 marks)

b) Simplify: <u>6.48</u> 1-0.82

(3 marks)

24.The sum of the values in the table below is the same vertically, horizontally and diagonal fill in the missing value to complete the table. (5 marks)

7 is as		2.5	14
22	17	16	
	21	20	15
13	12		26
		1, 1	

25.a) Find the number whose standard from is 4.061 x 10⁴

(2 marks)

b) Given that $2^{2x} \times 3^2 = 144$, find the value of x

(3 marks)

26. The average age of **7** boys is **12** years, when the **5**th and **6**th and **7**th boy leave the group, the average age becomes **13** years. If the **6**th boy who is twice as old as the **5**th boy who is **4** years younger than the **7**th boy, how old is the **7**th boy. (5 marks)

27.a) Find the multiplicative inverse of $\frac{2}{3}$

(2 marks)

b) A full tank in **16 hours**. If all the three taps are opened at the same time, how long will it take the tank to be full?

28.A rubber costs shs. 1200 less than the cost of a set. A pen costs sh.500 more than twice the cost of a set. If all items cost sh.9100.

a) Find the cost of a rubber.

(4 marks)

29. The table below shows the items bought by Adikiin from a shop.

Quantity	Unit price	Amount
3 bars	Sh. 3900 per bar	Sh
750gm	Shper kg	Sh. 1350
-	Sh. 2000 per 3 apples	Sh. 12000
	Total	Sh
	3 bars	3 bars Sh. 3900 per bar 750gm Shper kg Sh. 2000 per 3 apples

a) Complete the table.

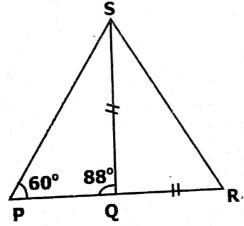
(3 marks)

b) If she was given a change of **sh. 4950**, how many notes of five thousand shillings each did she have? (2 marks)

30.a) The interior angle of a regular polygon is 36° more than its exterior angle. How many sides has the polygon?
(3 marks)

b) In the figure below angle PQS = 88° and angle QPS = 60°. Find the size of angle PSR.

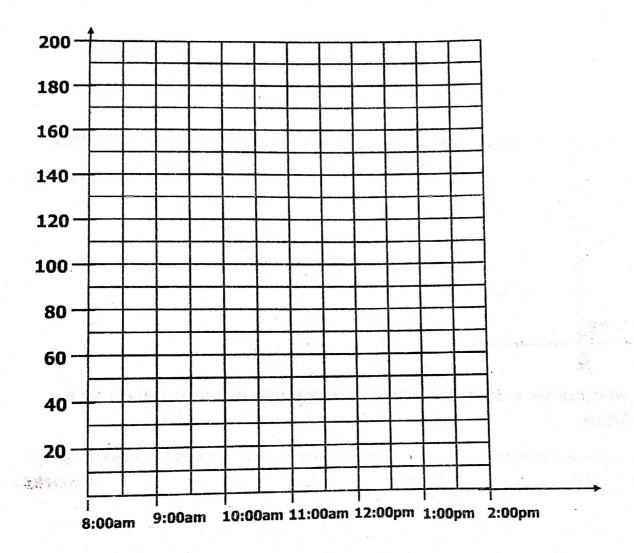
(3 marks)



31. A wheel of Wheelbarrow is **35cm** in diameter. A worker uses it to carry cement for a distance of **4.4km**.

a) If the wheel barrow makes **50** revolutions every minute, how long does the worker take to transport the cement? (4 marks)

- 32. Akot left town M at 8:30am and drove for 2 hours at a speed of 55km/hr to town L. She then rested for 30 minutes before driving for 1½hours to town K at a speed of 60km/hr. After a 30 minute rest, she left town K and drove back to town M at a speed of 80km/hr.
- a) Draw Akot's Journey on the graph below



b) Find the average speed for the whole journey.

(2 marks)