## PARAGON EXAMINATION BOARD (PEB)

## PRIMARY SEVEN QUALITY CHECK ONE 2023 P.7 MATHEMATICS

## TIME 2HOURS 30MINUTES

	SECTION A
1.	Workout 2424÷ 6 using lattice method.
2.	Find the range of the next two numbers in the progression below.  48, 46, 43, 38, 31,
3.	Write one hundred four thousand one hundred one in standard form.
4.	Given that $a=3$ , $b=-4$ and $c=5$ . Find the value of $b^2$

5.	Round off 5789 to the nearest hundreds.	
6.	Write the GCF of 12 and 18 in Roman numerals.	
7.	Simplify -3- 8	
-	2001-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
8.	Increase 960 kg in the ratio of 8:9	
9.	Solve $\frac{16-k}{4} = 1-k$	
	4	

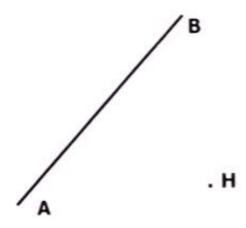
10. I



represents 12 balls. Draw such pictures to represent 66 balls.

11. Workout (17÷5) + (13 ÷5) using distributive property.

 Using a ruler, a pencil and a pair of compasses only, construct a parallel line to line AB through point H.

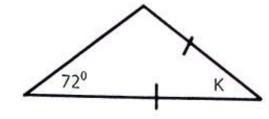


13.	Convert <b>8500g</b> of sugar to kilograms.
14.	A trader sold a dress at sh. <b>63,000</b> and made a loss of sh. <b>700</b> . Calculate the percentage loss the trader made.
15.	Study the figure below and use it to find its area.  10cm 8cm

16.	Give that 52p=200four	, find the value of P.

17. Give that set 
$$Q = \{f, h, m\}$$
. How many powers sets are in set  $Q$ 

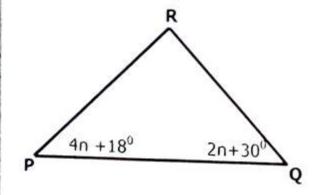
18. Work out 
$$3\frac{1}{4} + \frac{4}{5}$$



20. Work out 3 - 5=y (finite 6)

## **SECTION B**

21. In the trigon below, angle QPR=50



(a).

Workout the size of angle PRQ. (4 marks)

22. Ssekuburya went to a supermarket and bought the items below.

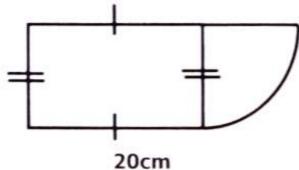
 $1\frac{1}{2}$  kg of rice at sh. **1,800** a packet of **300g**.

750ml of edible oil at sh. 8,000 a litre.

2 half kilogram sachets of salt.

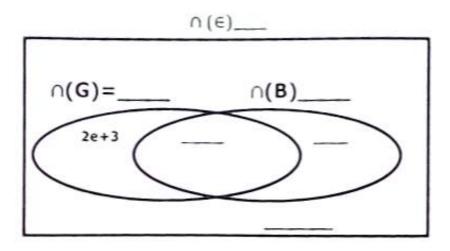
If Ssekuburya went to the supermarket with sh. 20,000 and remained with sh. 4820 after being offered a discount of 8%. How much did he pay for a sachet of salt? (5 marks)

23. A fly moves  $1\frac{1}{2}$  times around the figure below to cover 1.34 metres.



Calculate the area of the figure above (06 marks)

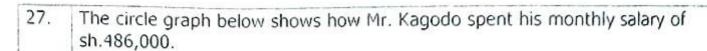
- 24. In a group where all the members grow maize (M), (5e-2) of them grow beans ((B), (2e+3) grow groundnuts (G) but not beans, (e+4) grow all the three crops, (e-4) grow only one crop. Give that 3 less farmers grow groundnuts than beans.
- (a) Complete the Venn diagram below using the above information (3marks)

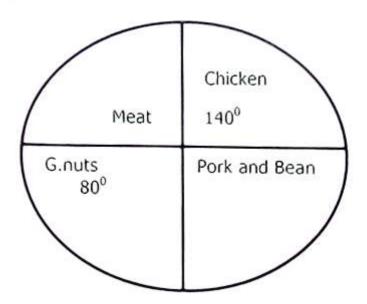


(b) What is the probability that the group leader grows at least two crops? (3 marks)

25	A YY coaches bus left Kampala with 60 passengers, heading to Mbale via Jinja. The bus fare to Jinja and Mbale was sh. 8.000 and sh. 20000 respectively. If some passengers alighted from Jinja and the rest headed to Mbale.
(a).	Calculate the number of passengers who reached Mbale if the conductor collected a total of sh.912, 000 from all the passengers. (3 marks)
(b)	How much money did he collect from the passengers who stopped in Jinja?  (3 marks)

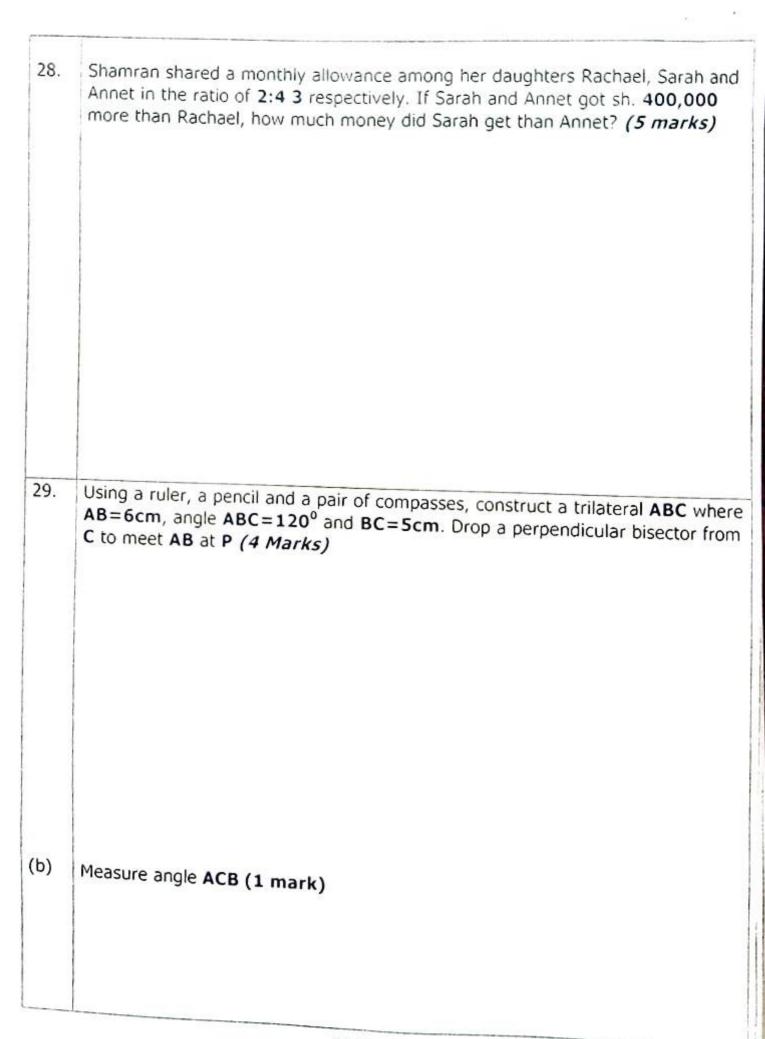
26.	The ratio of boys to girls in a class is 1:2 respectively, 40% of the boys are in the lower primary classes and 75% of the girls are in upper primary classes. The total number of pupils in upper primary classes is 42, how many pupils are in lower primary classes? (5marks)





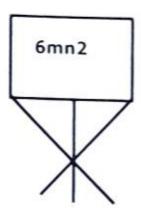
(a) Find the angle sector for pork and Beans if he spent sh. **54000** on buying meat (2 marks)

(b). If he spent sh. **98500** on buying pork, how much money was spent on Beans (3 marks)



30. Solve 
$$\frac{3k+1}{2} - \frac{2k+5}{3} = 1$$
 (2 marks)

 A teacher wrote a number on the board as shown below and some of its digits were unknowns. Use it to answer the questions that follow.



(a) If  $\frac{3}{8}$  of the value of m is 150, what is the digit represented by letter n given that the ratio of the values of the digits m and n is 8:1 respectively (4 marks)