



OUTREACH SCHOOLS EXAMINATIONS BOARD

END OF TERM II EXAMINATION 2024

P.6 MATHEMATICS

Time Allowed: 2 hours 30 Minutes

Pupil's Name:

Class:

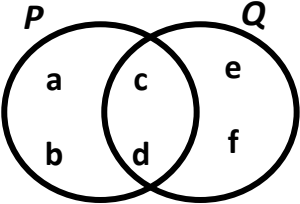
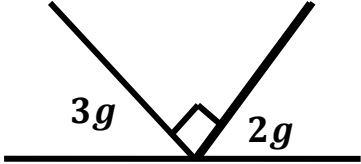

School Name:

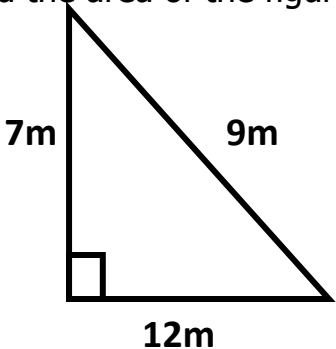

Read the following instructions carefully:

1. This 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 the working for both sections A and B must be shown in the spaces provided.
5. All working must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated
"For examiners' use only" and the boxes inside the question paper.

FOR EXAMINERS'		
USE ONLY		
Qn. No.	MARKS	EXR'S No.
1 - 10		
11 - 20		
21 - 30		
31 - 32		
TOTAL		

SECTION A: 40 MARKS

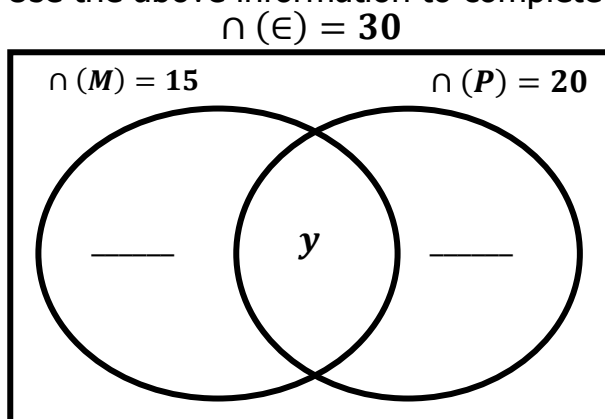
1.	Multiply: 24×2	2.	Write 1,098 in words.
3.	<p>Given the venn diagram below.</p>  <p>Find $n(P \cap Q)$</p>	4.	Simplify: $3m + 3p - p - m$
5.	Simplify: $20 \div \frac{2}{5}$	6.	<p>Find the value of g in degrees.</p> 
7.	<p>Find the next two numbers in the sequence.</p> <p>25, 16, 9, 4, _____, _____</p>	8.	<p>A lesson started at 9:30am and took $1\frac{1}{4}$ hours. At what time did it end?</p>
9.	<p>How many lines of folding symmetry has the figure below?</p> 	10.	<p>The cost of 4 pens is shs.2,000/=. What is the cost of 3 similar pens?</p>

11.	Find the area of the figure below. 	12.	If  represents 8 balls. Draw pictograph to represent 24 balls.
13.	Given that $P = \{a, b, c\}$. Find the number of subsets in set P .	14.	Workout: $4 \overline{) 1212}$
15.	Round off 459 to the nearest tens.	16.	Workout: $-7 + +4$
17.	Express 20 minutes as a fraction of 1 hour.	18.	Workout the range of the following: 2, 4, 7, 9, 3 and 5.
19.	Change 240 minutes to hours.	20.	Find the G.C.F of 18 and 36.

SECTION B:

21. In a club of 30 girls, 20 girls took Pepsi Cola (P), 15 girls took Mirinda (M) and y enjoyed both of the drinks.

(a) Use the above information to complete the Venn diagram below. (2 marks)



(b) Find the value of y .

(2marks)

(c) What is the probability of picking a girl who took one type of drink?

(2marks)

22. (a) Expand 6345 using powers of 10.

(2 marks)

(b) Write 36 in Roman numerals.

(2 marks)

(c) Find the value of 3 in the numeral 4,631.

(1 mark)

23.	<p>The area of a rectangular block is 40cm^2. If its length is 8cm,</p> <p>(a) Calculate its width (3marks)</p> <p>(b) Find its perimeter. (2marks)</p>
24.	<p>(a) Paul deposited shs.400,000 in a bank that offers 2% simple interest rate per year. Calculate the simple interest he got after 3 years. (3 marks)</p> <p>(b) Find Paul's total amount after 3 years. (2 marks)</p>
25.	<p>Use the signs $>$, $<$ or $=$ to complete the following statements. (1mrk@)</p> <p>(a) 2 days _____ 48 hours</p> <p>(b) 6×0 _____ $5 + 1$</p> <p>(c) XL _____ LX</p> <p>(d) $\frac{3}{4}$ kg _____ $\frac{1}{2}$ kg</p>

26. Given that $p = 3, n = 4$ and $m = 5$. Find the value of:
- (a) mn (2mrks) (b) $n(p + m)$ (2mrks)
- (c) $\frac{m}{n}$ (2mrks)

27. Annet went to the supermarket and bought items shown in the table below.

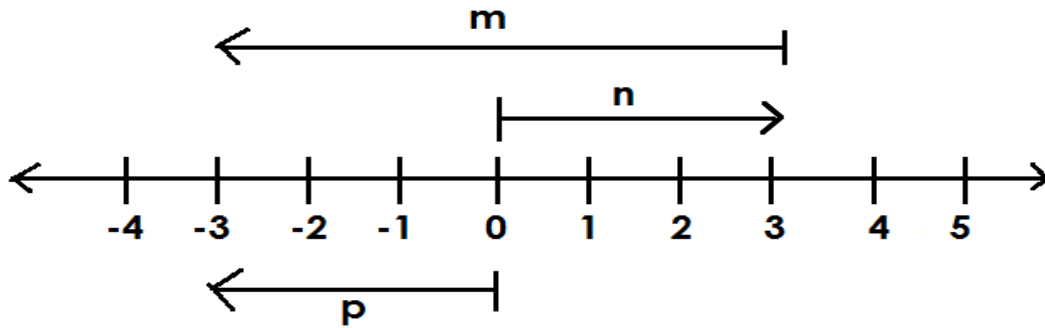
Item	Quantity	Price	Amount
Eggs	15	Sh.300 per egg	Sh._____
Meat	_____kg	Sh.8000 per kg	Sh.20,000
Cooking oil	$\frac{1}{2}$ litre	Sh._____ per litre	Sh.2,000
Sugar	$1\frac{1}{2}$ kg	Sh.3,000 @ kg	Sh._____
Total expenditure:			Sh._____

Complete the table above.

(5mrks)

28. (a) Find the sum of 265 and 42. (2mrks)
- (b) Multiply: $\begin{array}{r} 32 \\ \times 14 \\ \hline \end{array}$ (2mrks)

29. Study the number line below and answer the questions that follow.



(a) What is the value of: (1mrk@)

(i) $p =$

(ii) $n =$

(iii) $m =$

(b) Write down the mathematical statement for the above number.(2mrks)

30. Construct a regular Hexagon in a circle of radius 4cm. (4mrks)

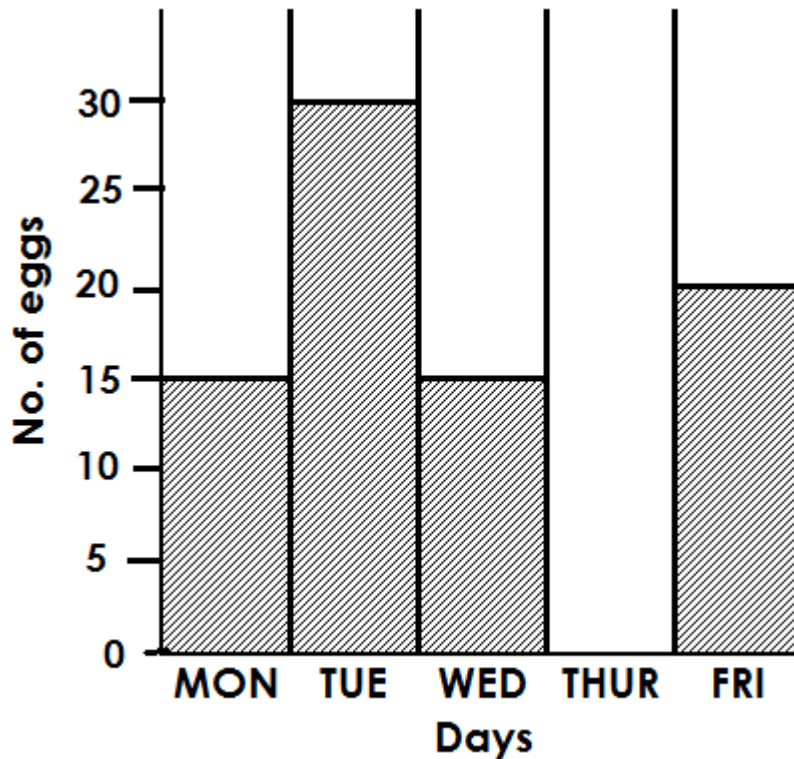
31. If $M = \{2_1, 2_2, 3_1, 5_1\}$ and $N = \{2_1, 3_1, 3_2, 5_1\}$

(a) Calculate the G.C.F of M and N.

(3mrks)

(b) What least number of books can be shared by 6 girls or 8 boys and 3 books remain? (3mrks)

32. The graph below shows the number of eggs collected in five days.



(a) On which day was the most number of eggs collected? (1mrk)

(b) How many eggs were collected on Friday? (1mrk)

(c) Calculate the average number of eggs collected in five days. (3mrks)

"GOOD LUCK"