



SEETA JUNIOR SCHOOL EXAMINATIONS COMMITTEE

QUALITY CHECK SET II EXAMINATION

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

EMIS No.						Personal No.		

Index No. : _____

Candidate's Name :

Candidate's Signature :

EMIS No. :

District Name :

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated:
"For Examiners' Use Only"

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		

SECTION A: (40 MARKS)
(Questions 1 to 20 carry two marks each.)

1. Multiply:
$$\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$$

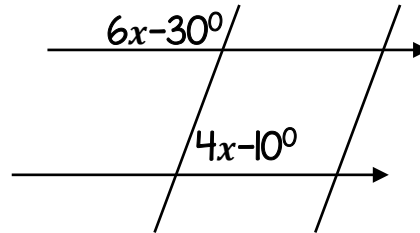
2. Express DLXIV in words.

3. Given that $K = \{a, b, c, d, h, g\}$ and $P = \{b, d, e, f, l\}$, find $n(K-P)$.

4. Find the difference of the next two missing numbers in the sequence below.

2, 4, 7, 12, 19, _____, _____

5. Find the value of x in the diagram below.



6. Express 0.00234 in standard form.

7. Using a pair of compasses, a ruler and pencil only, construct an angle of 75° .

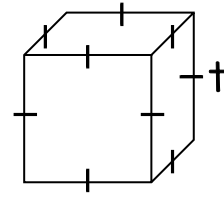
8. A trader bought 20 mangoes for sh. 8000 and sold each mango at sh. 500. Calculate the profit he got after selling all the mangoes.

9. Simplify: $(4q - 6) - (3q - 8)$

10. Liz and Joan shared books in the ratio of 5:7 respectively. Liz got 6 books less than Joan. How many books did they have altogether?

11. Solve $2m - 3 = 2$ (finite 7)

12. Below is a cube whose total surface area is 600m^2 .



Find the value of t .

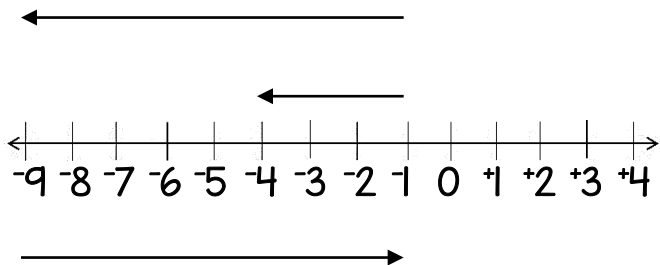
13. A car uses 8 litres of petrol to travel 40km. how many litres are needed to travel 120km?

14. Solve for M in;
 $5^{2m} \div 5^m = 125$

15. A die is tossed once, find the probability that a composite number appears on top.

16. Change 6000m^2 into km^2 .

17. Write a mathematical sentence shown on the numberline below.



18. A music lesson which lasted for $1\frac{1}{4}$ hours and ended at 12:05pm. At what time did the lesson start?

19. Use the distributive property to work out.

$$(8.4 \div 3) + (6.9 \div 3)$$

20. Soroti town is south east of Mbale town. Find the bearing of Mbale town from Soroti town.

SECTION B: (60 MARKS)

Answer all questions in this section.

21. (a) Solve: $2(2P-5)-3(1-P) = 8$

(02marks)

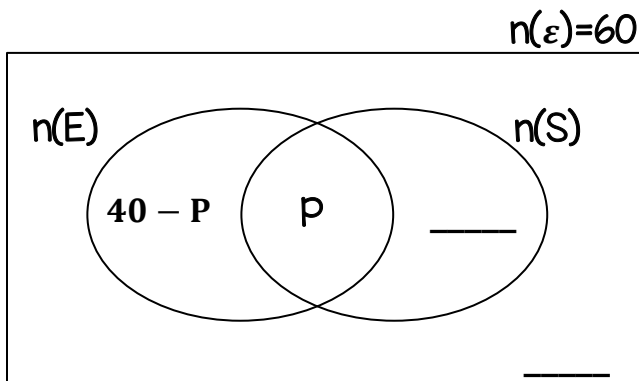
(b) Moureen is 32 years old and Molly is 16 years older than Moureen. Find their total age.

(02marks)

22. In a class of 60 students, 40 students like English (E) $\frac{1}{4}$ of the students who like English like Science only. P students like both English and Science and $(2P-10)$ students do not like any of the two subjects.

(a) Complete the venn diagram below.

(02marks)



(b) Find the number of students who like none of the subjects.

(03marks)

23. A lady went shopping and bought the following items.

- 2 litres of cooking oil at sh. 3500 per litre.
- $2\frac{1}{2}$ of millet flour at sh. 4800 per kg.
- 250grams of rice at sh. 4000 per kg.
- 15 apples at sh. 1500 for every 3 apples.

(a) Calculate the amount she paid if she was given a discount of sh. 2100.

(06marks)

24. Using a pair of compasses, a ruler and a pencil only construct a triangle ABC where $AB = 7\text{cm}$, angle $BAC = 45^\circ$ and angle $ABC = 60^\circ$. Drop a perpendicular from C to meet AB at K.

(05marks)

25. The average of K , 6, 9, 5, $(K+1)$ and 7 is 15.

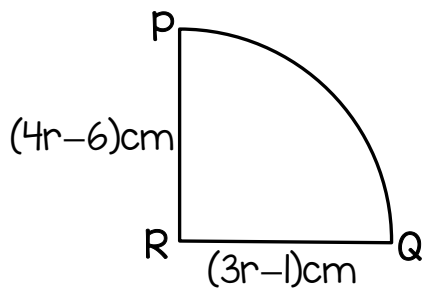
(a) Find the value of K .

(03marks)

(b) Find the median of the numbers.

(02marks)

26. Study the diagram and answer the questions that follow.



(a) Find the value of r .

(02marks)

(b) Calculate the length of the arc PQ ($\pi = \frac{22}{7}$).

(03marks)

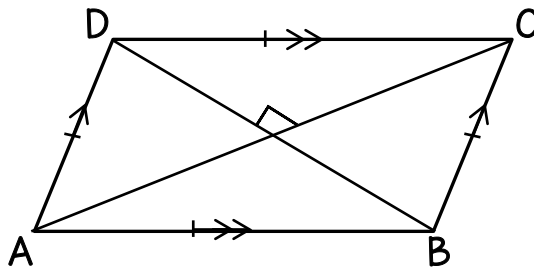
27. In a school, there are 20% more female workers than male workers. If there are 45 female workers.

(a) Find the total number of workers in the school. **(04marks)**

(b) How many more female workers than male workers are in the school?

(01marks)

28. The figure below is a rhombus ABCD where diagonal BD is 6cm and the length of each side of the rhombus is 5cm. study it carefully.



(a) Find the length of the diagonal AC.

(03marks)

(b) Calculate the area of the triangle DBC.

(02marks)

29. A father had sh. 800,000, he used $\frac{1}{4}$ of it to pay fees for his child, $\frac{1}{2}$ of the remaining to buy food for the family and banked the rest. How much money was banked?

(05marks)

30. (a) Express 0.277... as a common fraction in its lowest term.

(02marks)

(b) Workout: $\frac{0.24 \times 3.6}{0.12 + 0.36}$

(03marks)

- 31.** A motor cyclist travelling at a speed of 45km/h started the journey from town A at 9:10am and reached town B at 12:10pm. He then continued to town C a distance of 100km in 2 hours.

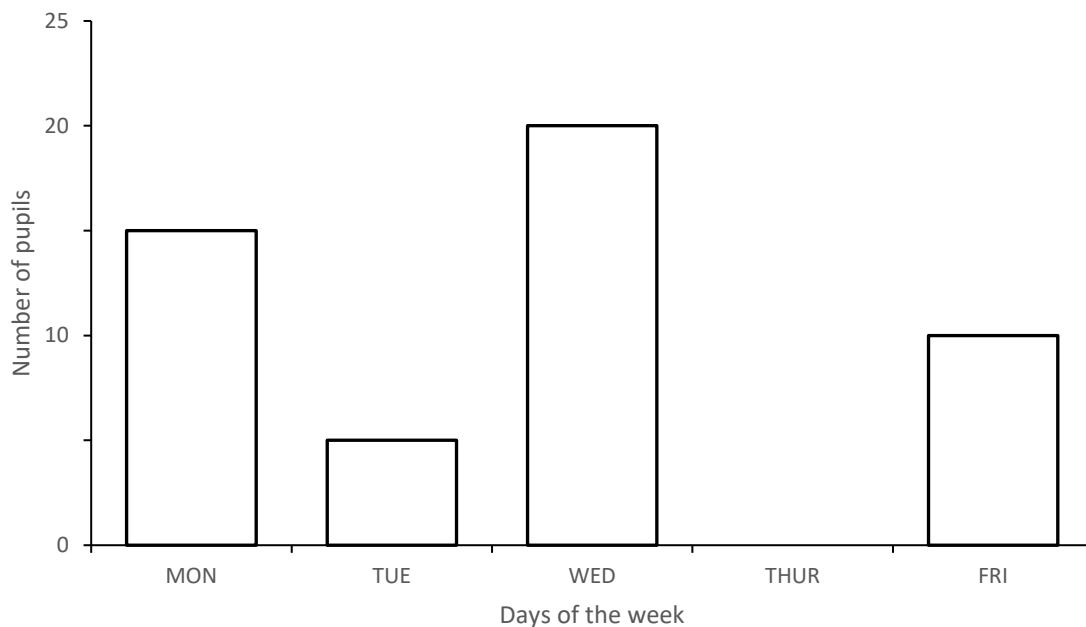
(a) How far is town C from town A?

(03marks)

(b) Calculate the average speed of the cyclist for the whole journey.

(02marks)

- 32.** The graph shows the number of pupils who were absent in a class of 50 pupils during a period of one week in Kapir P/S.



(a) When was the attendance highest? **(01mark)**

(b) How many pupils attended school on Monday? **(01mark)**

(c) Workout the average attendance for the week. **(03marks)**

THE END