



SEETA JUNIOR SCHOOLS EXAMINATIONS COMMITTEE

QUALITY CHECK SET 3 EXAMINATION

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No. :

| EMI No. | | | | | | Personal 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-pointpen 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)

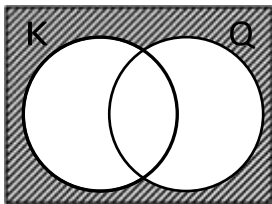
(Questions 1 to 20 carry two marks each.)

1. Work out: $0.2 + 0.3$

2. Simplify: $2pp^2 - 4rr + pp^2 - 2rr$

3. Describe the shaded region on

the venn diagram.



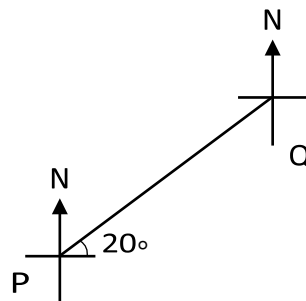
4. A dozen books was bought by a businessman at sh. 6000 and he sold each book at sh. 650. Calculate the profit he got after selling all the books.

5. Solve for x : $x - 4 = 3$ (mmm 5)

6. A forty-five-minute lesson started at 12:30pm. At what time did it end in a 24hour clock system?

7. Study the diagram given.

Find the bearing of P from Q.



8. A motorist covered a distance of 80km in 40minutes. Find the speed in Kilometres per hour.

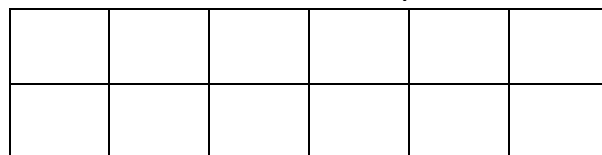
11. Write CXIX in words.

12. Simplify: $(9kk - 4yy) - (3kk + yy)$

9. Find the next number in the sequence below.

5, 13, 25, 41, 61, _____, _____

13. In the diagram below, shade 75% of the total number of the squares.



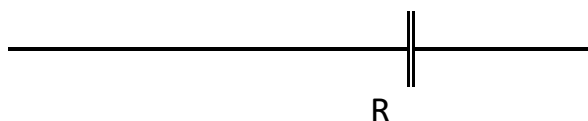
10. A spinner is made from a regular pentagon and labelled 1 – 5. What is the probability of a score of a prime number appearing?

14. Given that $a = 5$ and $b = 3$, find the value of $2(a - b)$.

15. Find the number of revolutions a wheel of radius 35cm can make to cover a distance of 2.2km?

$$\frac{2222}{77} (\pi\pi=)$$

16. Using a pair of compasses, ruler and pencil, construct an angle of 150° at point R.



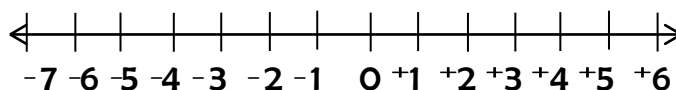
17. Boy scouts are standing on a straight line, Paul is the 7th and 12th from either side of the line. How many boy scouts are on the line?

18. Work out:

$$1001_{\text{three}} - 21_{\text{three}}$$

19. The school bursar gave out receipts for a concert from serial number 3041 to serial number 3090. If each receipt was for sh. 15,000, how much money did the bursar collect?

20. Workout: $+5 - -2$ using the numberline below.



SECTION B: **(60 MARKS)**

Answer **all** questions in this section.

21. (a) Solve for t :

(3marks)

$$2t^2 - 4 = 124$$

(b) The perimeter of a rectangle is 56cm. Its length is three times its width.

Find the width of the rectangle.

(2marks)

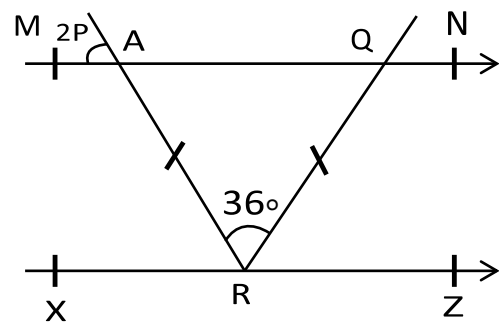
22. (a) Workout: $\frac{0.3 + 0.03}{0.03}$

(3marks)

(b) Six builders take 4 days to roof a house. How many more builders are needed to roof the house in 3 days?

(2marks)

23. Study the diagram and use the information to answer the questions that follow.

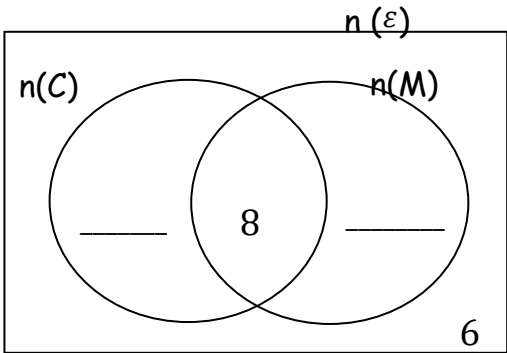


(a) Find the value of **P**. (2marks)

(b) Workout the size of the angle marked **QRZ**. (2marks)

24. At a party, (P - 10) guests ate chicken (C) and 25 ate meat (M), 8 ate both meat and chicken while 6 did not eat any of the dishes.

(a) Complete the venn diagram. (2marks)



(b) Given that 22 guests ate only one type of sauce, find the value of P.

(2marks)

(c) How many guests attended the party?

(2marks)

25. A bus left Kampala at 7:15a.m travelling at a speed of 80km/hr. At 10:45a.m, it got a puncture that took $\frac{1}{2}$ hour to fix before it continued to Mbarara at a speed of 55km/h for 2hours.

(a) At what time did the bus arrive Mbarara?

(3marks)

(b) Calculate its average speed for the whole journey.

(4marks)

- 26.** The table below, shows the rate at which different currencies are bought and sold in a commercial bank.

| Currency | Buying price | Selling price |
|-----------------|--------------|---------------|
| 1US dollar | Ugx. 3800 | Ugx. 3850 |
| 1Kenya shilling | Ugx. 37 | Ugx. 38 |

- (a) Mukasa has Ugx. 308,000, how many US dollars will he get from the bank? (2marks)

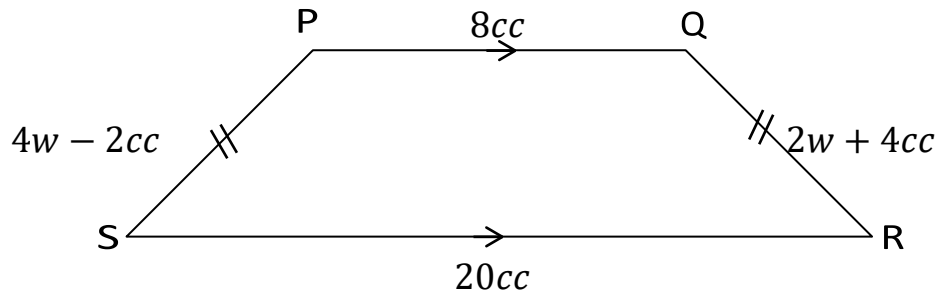
- (b) The cost of a radio is 170 US dollars, find the cost the radio in Kenya shillings. (2marks)

- 27.** The average of $2mm + 5$, $4 + mm$, $3mm + 1$ and 12 is 19.

- (a) Find the value of mm . (3marks)

- (b) Workout the largest number. (2marks)

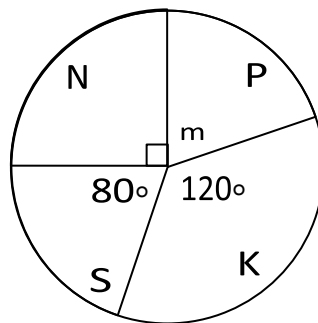
28. The figure below is an Isosceles trapezium in which $PQ = 8\text{cm}$ and $RS = 20\text{cm}$.



- (a) Find the value of w . (2marks)

- (b) Calculate the area of the figure PQRS. (4marks)

29. The pie-chart shows the number of pupils in different streams at Apollo Junior School. Study it carefully and answer the questions that follow.



- (a) Find the value of m . (2marks)

- (b) If there are 19 more candidates in stream K than stream N. Find the total number of pupils in the class. **(3marks)**

30. Given the numeral 30.68.

- (a) Round off the numeral to the nearest whole number. **(2marks)**

- (b) Find the product of the value of 3 and place value of 6 in the given number. **(2marks)**

- 31.** At a shop, the cost of a fountain pen is sh. 3000 less than that of an oxford set. A box file costs $\frac{2}{3}$ as much as oxford set. If all the items cost sh. 49,200. Find the cost of the fountain pen. **(5marks)**

32. (a) Construct a rhombus **WXYZ**, such that **$\angle ZWX = 120^\circ$** and line **$WZ = 6\text{cm}$** .

(3marks)

(b) Measure diagonal **ZX**.

(1mark)

*****THE END*****