



KCCA PRIMARY SCHOOLS EXAMINATIONS COMMITTEE
PRIMARY SIX END OF YEAR EXAMINATIONS 2022
MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES.

PUPIL'S NAME: _____

SCHOOL: _____

DIVISION: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

1. This paper is made up of two sections: **A** and **B**
2. Section **A** has **20** questions (**40** marks)
Section **B** has **12** questions (**60** marks)
3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.
4. ALL answers **MUST** be written using a **Blue** or a **Black** - point pen or fountain pen.
5. Un-necessary 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 any thing in the boxes shown

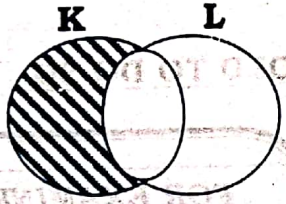

"For Examiner's use only".

FOR EXAMINERS' USE ONLY		
QN. NO	MARKS	SIGN.
1 - 10		
11 - 20		
21 - 25		
26 - 30		
31 - 32		
TOTAL		

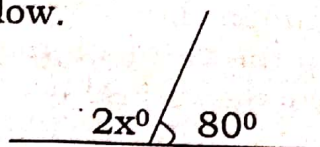
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TURN OVER

SECTION A (40Marks)

<p>1. Multiply: $\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$</p>	<p>2. Simplify: $3m + 2m - m$</p>
<p>3. Describe the unshaded region in the Venn diagram below.</p> 	<p>4. Expand 65480 using exponents.</p>
<p>5. Find the next number in the sequence. 1, 3, 4, 6, 7,</p>	<p>6. Workout: $2^+ - 4^-$</p>
<p>7. Workout: $\frac{5}{8} \div 1\frac{1}{4}$</p>	<p>8. Given that  represents 25 balls, draw pictures to represent 100 balls.</p>

9. Find the value of x in the figure below.



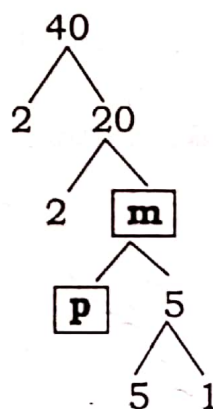
10. Express **54km/hr** as **m/sec**.

11. Peter bought **4** apples for **sh. 2,000**. How much money could he pay if he wanted **7** apples?

12. A bicycle tyre has a diameter of **35dm**. Calculate the circumference of the tyre.
(Use $\pi = \frac{22}{7}$)

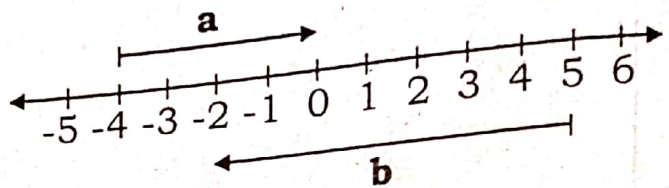
13. Given that Set **D** = {book, pen}, list all the subsets of Set **D**.

14. The diagram below shows the prime factorization of **40**. Find the value of **m** and **p**.



15. Increase **800** goats by **5%**.

16. Study the number line below and use it to find the value of integers marked by arrows **a** and **b**.



a = _____

b = _____

17. Using a ruler, a pencil and a pair of compasses only, construct an angle of **45°**.

18. If **w = 3** and **n = 4**, find the value **w² - n**

19. Round off **33981** to the nearest hundreds.

20. **Divide:** 1818 by 6.

SECTION B

21. a) **Simplify:** 2.4×0.6
 0.3×0.2

(3marks)

b. **Workout:** $\frac{3}{4} - \frac{5}{6} + \frac{1}{3}$

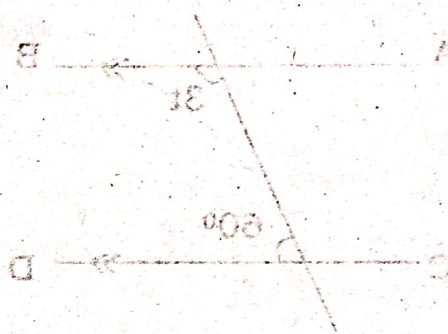
(2marks)

22. a. Solve for k : $34_k = 103_{\text{four}}$

(3marks)

b. Convert 19_{ten} to base five

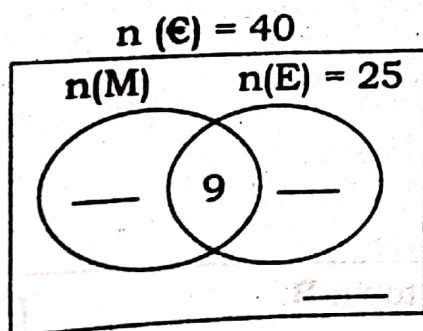
(2marks)



23. In a class of 40 pupils, 20 like Mathematics (M), 25 like English (E), 9 like both Mathematics and English while n like neither of the two subjects.

a. Complete the Venn diagram below using the above information.

(3marks)



b. Find the value of n .

(2marks)

24. Find the complement of 68°

(2marks)

a.

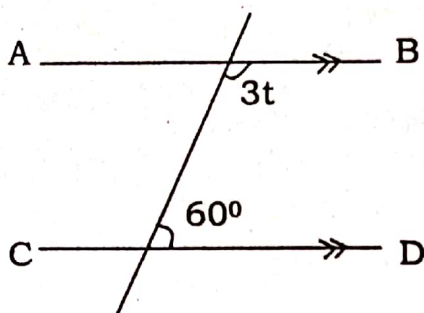
Workout: $\frac{1}{2} + \frac{2}{3} = \frac{3}{6} + \frac{4}{6} = \frac{7}{6}$

b.

Simplify: 2.4×0.5
 2.0×0.5

b. In the diagram below, line **AB** is parallel to **CD**. Find the value of **t**.

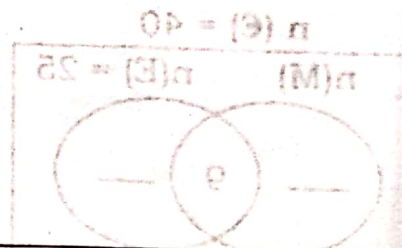
(3marks)



25. A motorist left town **A** at **8:00am** for town **B** at a steady speed of **60km/hr**. He reached town **B** at **11:00am**.

a. How long did the journey take.

(2marks)



b. Calculate the distance between town **A** and town **B**.

(2marks)

26. Aminah went shopping and bought the following items for her party as shown in the diagram below.

ITEM	QUANTITY	UNIT COST	AMOUNT
Maize flour	3kg	sh. 4,000 per kg	sh.
Meat kg	sh. 14,000 per kg	sh. 7,000
Sugar	500gm	sh. per kg	sh. 2,500
Cooking oil litres	sh. 9,000 per litre	sh. 27,000
TOTAL EXPENDITURE			sh.

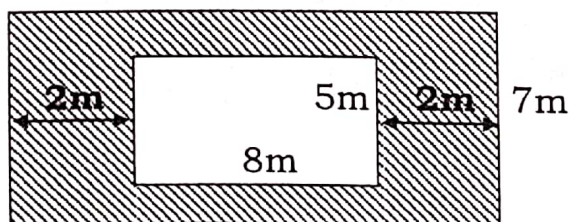
- a. Complete the table above.

(5marks)

- b. If she was given a discount of **shs. 2,500**, how much did she pay for all the items?

(1mark)

27. Study the figure below carefully and use it to answer the questions that follow.



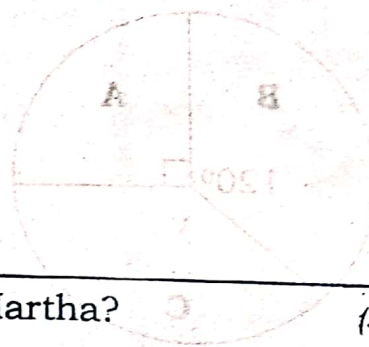
a.	Calculate the length of the outer figure. (2marks)
b.	Workout the area of the shaded region. (3marks)
28.	Solve for y : $2(y + 1) = 8$
a.	(2marks)
b.	John is $2x$ years old and Sarah is x years old. If their total age is 18 , how old is John? (3marks)

29. Using a ruler, a pencil and a pair of compasses, construct a triangle **CAT** where line **CA = 6cm**, angle **CAT = 30°** and angle **ACT = 60°**. (4marks)

- b. Measure line CT. (1mark)

30. Mr. Mulema shared some money among his three daughters Martha, Pauline and Tracy in the ratio **2:3:5** respectively.

- a. Given that Pauline got **shs. 15,000**, find the total amount of money that was shared. (3marks)



- b. How much more money did Tracy get than Martha? (3marks)

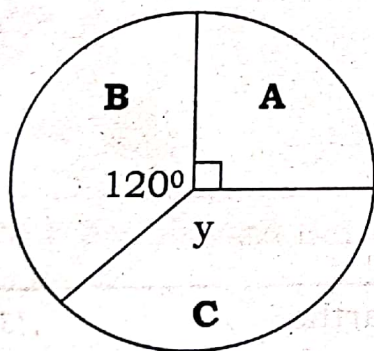
31. Jacob sells milk using **500ml** cup.

- a. If he sold **20** litres using the same cup, how many such cups of milk did he sell? (3marks)

- b. If each cup costs **shs. 1,500**, how much money did he get? (2marks)

32. The pie chart below shows the number of children who passed in three schools in Kampala district. Use it to answer the questions that follow.

- a. Find the value of **y** in degrees. (2marks)



- b. If there are **720** children, how many children passed in school **B**? (2marks)