MASAKA CATHOLIC DIOCESE TEACHERS ASSOCIATION (MACADTA)

PRIMARY LEAVING MOCK EXAMINATION 2022

MATHEMATICS

Time Allowed: 2 hours 30 minutes

RANDOM No.		PERSONAL No.					
Co	ındidate's Name		••••••				
Co	ındidate's Signature						
Sc	hool Name						
Dis	strict Name		••••••				
Re	ad the following instru	ictions carefully:					
1.	The 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. Diagrams should be drawn in pencil.						
4.	Unnecessary changes of work may lead to loss of marks.						
5.	Any handwriting that cannot easily be read may lead to loss of marks.						
6.	Do not fill anything in the boxes indicated: "For Examiners" Use Only" and those inside the question paper. Turn Over						

. Work out 12 ÷ 4	4.	Given that $R = \{2, 3, 4, 8, 7\}$ and W $(3, 7)$ $(4, 1$
Given that $a = 8$ $b = 7$ and $c = 4$, 5.	Write 'Nine thousand pinety pino'
find out the value of <u>a + b</u> c		Write 'Nine thousand ninety - nine' in figures.
Work out $2\frac{1}{4} \times \frac{3}{4}$	6.	Express 20m/s as kilometres per hour

•	Kinya sold a book at sh. 7,500 and made a loss of sh. 800. Find the price at which Kirya bought the book.	10.	The mean of 2x, x - 3 and 6 is 14. Find the value of x
8.	Find the value of r in the figure below:	11.	The mass of a packet of salt is 1/8 kg. What is the mass in grammes?
	3r >	12.	Work out the perimeter of the semi circle below (Use π as 3.14)
9.	Simplify -39		20 cm

Solve the inequality and find the 13. Find the Greatest Common Factor 15. solution set for $4 \ge 2p > -12$ (GCF) of x and 30 in the venn diagram below F_{x} F₃₀ 2, 5, 31 In a class, 0.6 of the pupils are girls and there are 20 boys. How many pupils are there in the class? Using a protractor, measure the angle marked with letter k in the figure below Expand 97.08 using powers of ten

It started raining at a half past midnight. Express this time in the 24-hour clock.

19. The bearing of town P from town L is 123°. Find the bearing of town L from town P.

20. Find the next two numbers in the sequence:

6, 10, 16, 24, 34, _____, ____

SECTION B:

Answer **ALL** questions in this Section

Marks for each section are indicated in brackets.

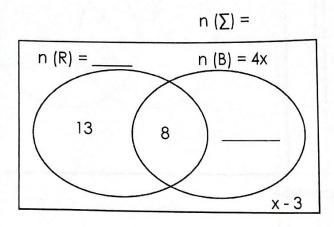
21. (a) Find the number whose scientific notation is 3.8×10^2 (02 marks)

(b) Solve: $3^k \times 3 = 81$

(03 marks)

bile cas

- both beans and rice, 13 members eat rice only while (x - 3) members do 22. not eat any of the two types of food.
 - (a) Use the above information to complete the venn diagram below. (02 marks)



b) Given that 14 members do not eat rice, find the total number of members in the home. (03 marks)

Using a pair of compasses, a ruler and a pencil only

Instruct a parallelogram ABCD such that AB = 7cm, BC = 5cm and angle (04 marks)

(b) Measure angle BAD

(01 mark)

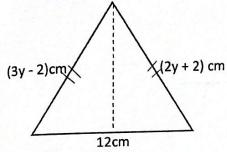
- 24. Anyait bought the items below:
 - 4 kg of sugar for sh. 3500 per kg
 - $\frac{1}{2}$ kg of salt for sh. 1000
 - 2 bars of soap for sh. y per bar
 - $3\frac{1}{2}$ kg of beans for sh. 2800 per kg
 - (a) How much money did Anyait spend on beans and sugar? (02 marks)

(b) If Anyait spent sh. 38,800 altogether, find the value of y. (03 marks)

The figure below is a triangle with length ST = 12cm. Use it to answer the questions about it.

a) Find the value of y.

(2 mrks)



(3 mrks)

b) Calculate the area of the triangle RST.

0.45 x 0.03

26. (a) Simplify

0.03 x 0.5

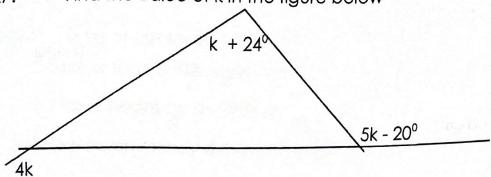
(03 marks)

(b) Work out: $\frac{3}{4} + \frac{2}{5}$

(02 marks)

(03 marks)

27. Find the value of k in the figure below



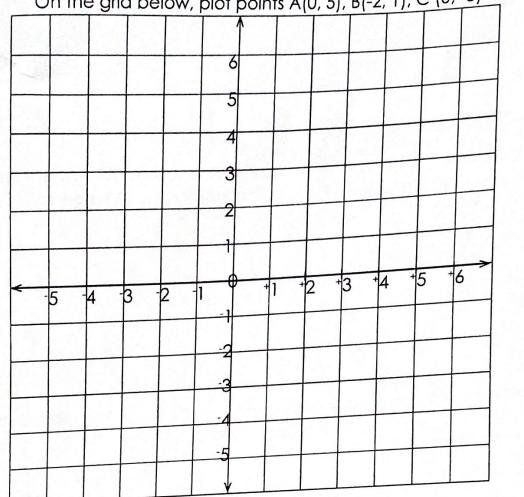
(b) Find the complement of 37°.

(02 marks)

28. On a farm of animals, $\frac{1}{6}$ of them are sheep, $\frac{3}{8}$ are rabbits, $\frac{1}{4}$ are cattle,

1 are goats and the rest are donkeys. If there are 152 donkeys on the farm, find the total number of animals on the farm. (05 marks)

On the grid below, plot points A(0, 5), B(-2, 1), C (0, -3) and D (2, 0) 29.



(b) Join A to B, B to C, C to D and D to A

(04 marks)

A motorist drove at a speed of 80km/h for 2 4 hours. He got a stopover for 45 minutes and covered 240km in a 2 hours after resting. 30. (02 marks)

(a) Find the distance he covered before the stop over.

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

(03 marks)

(b) The age of Musa and that of Angella are in the ratio of 7:9 respectively. 5 years ago, their total age was 54 years. Find Musa's age (03 marks)

32. The figure below shows a rectangle ABCD where AB = DC. AB, the diameter of the semi-circle ABF = 14cm. Find the area of the shaded part.

