

KISORO DISTRICT PRIVATE PRIMARY SCHOOLS ASSOCIATION (KIPRISA) PRIMARY LEAVING JOINT MOCK EXAMINATION 2023

MATHEMATICS

Time allowed: 2 hours 30 minutes.

Index No.

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Candidate's Name:

Candidate's Signature:

MIS Number:

District Name:

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)
3. Section B has 12 questions (60 Marks)
4. Answer ALL questions in both sections A and B.
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do not fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINER'S USE ONLY		
QN. No	MARKS	SIGN
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A. (40 Marks)

1. Subtract.
$$\begin{array}{r} 4\ 7\ 8 \\ -2\ 1\ 3 \\ \hline \end{array}$$

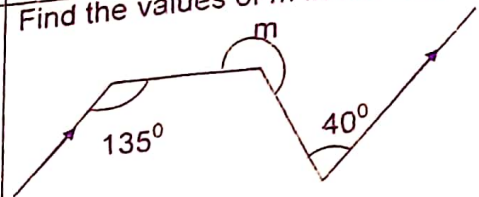
2. Write 54,094 in words.

3. Solve for p ; $6 - 2p = 14$



4. Given that set $A = \{a, b, c, d, e\}$
 $B = \{k, o, m, a\}$
 Find $A \cap B$.

5. Work out $2\frac{1}{3} + \frac{4}{5}$

6. Find the values of m in the diagram.

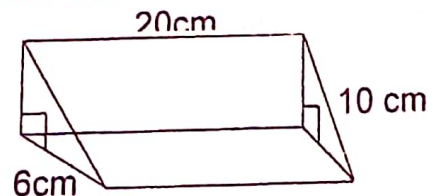


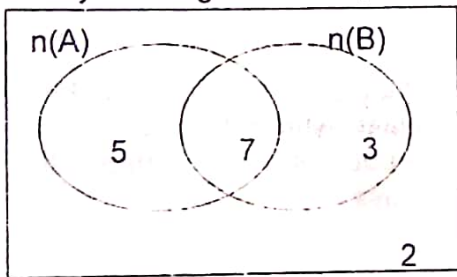
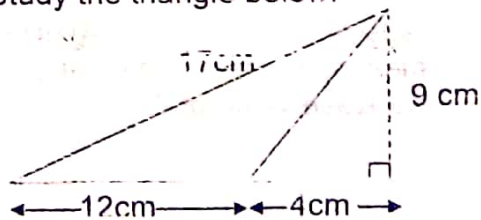
7. Write 0.00637 in scientific notation.

8. Given that  represents 24 flowers. How many flowers are represented by  ?

9. Joanitah bought a book for sh.7500 and later sold it at sh.5850. calculate the amount of loss made?

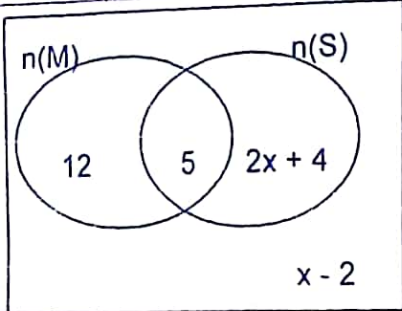
10. Work out the volume of a triangular prism below.



11.	Subtract $2 - 6 = \underline{\hspace{2cm}}$ (finite 7)	12.	Find the value of a using the sequence below. 4, 6, 8, 9, 10, $a+7$
13.	A motorist left town A and reached town B in 45 minutes. If town A and B are 69 km apart, at what speed was he moving?	14.	The bearing of the church from the mosque is 065° . Find the bearing of the mosque from the church. (Use a diagram)
15.	Study the diagram below;  Find $n(A \cap B)'$	16.	The ratio of boys to girls in a class is 3:5. If there are 16 more girls than boys in the class. How many boys are in the class?
17.	A graduation ceremony started at 11:45 am and ended at 3:12 pm. How long did the ceremony take?	18.	Study the triangle below.  Work out its area.

19.	In a bundle of 50 bank notes, the first note is numbered DP68864480. What is the number of the last note?	20.	Find in the average of $8k + 8$, k , $2 - 2k$ and $5k - 2$.
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SECTION .B. (60 Marks)

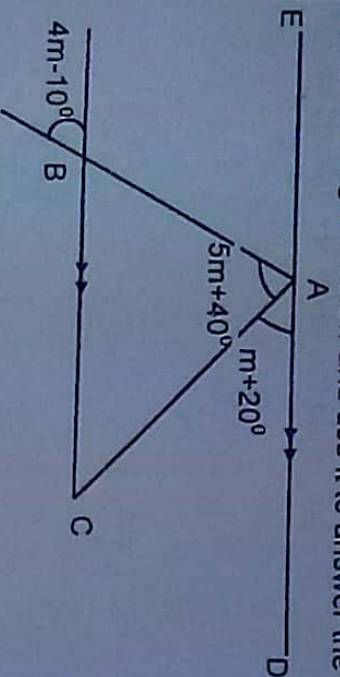
21.	In a class, some pupils like mathematics, (M), others like science (S), some like both mathematics (M) and science while the rest do not like any of the two subjects as shown in the Venn diagram below.		
		(a)	If 20 pupils do not like mathematics, find the value of x .
(b)	How many pupils are in the class?	(c)	If a pupil is picked at random from the class, what is the probability of picking a pupil who likes mathematics from the class?
22.	(a) Given the numerals 904873. Find the product of the value of 4 and the place value of 7.		
	(b) Expand the numeral using place values.		
	(6 marks)		
	(4 marks)		

23. (a) Simplify $3y - 7 - (2y + 4)$

(b) Solve for m in $5 - 2(m + 4) - 3 = 4m$

(5 marks)

24. Study the diagram below and use it to answer the questions correctly.



(a) Find the value of m in degrees.

(b) Find the size of angle EAC .

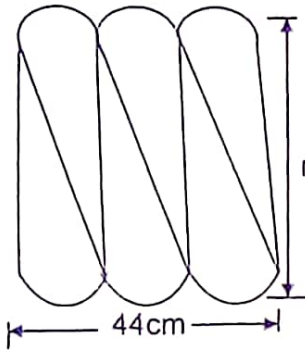
25. Simplify:

(a) $1\frac{1}{5} - 2\frac{1}{4}$ of $\frac{1}{3} + \frac{3}{8}$

(b) $\frac{0.18 \div 0.06}{0.12 : 0.03}$

(5 Marks)

(5 marks)

26.	A motorist left town M at 8:00 am going to town N. After covering 60km in 2hours, the vehicle rested for 30 minutes and later covered the remaining distance at speed of 8km/hr in 1hour and 30 minutes.	
(a)	Calculate the motorists' average speed for the whole journey?	(b) At what time did he reach town N?
(5 marks)		
27.	Study the diagram below and use it to answer the questions that follow.	
		(a) Find the value of r (take pi as $\frac{22}{7}$)
(b)	Find the area of the figure above.	
(5 marks)		
28.	A woman grouped mangoes in the market as follows. She grouped them in heaps of 5 and 2 mangoes remained. She again grouped in heaps of 7 mangoes and remained with 3.	
(a)	Find the least number of mangoes the woman had.	
(b)	The construction of a bridge started on Thursday, 14th November, 2010 and ended on 7th march, 2020. On what day of the week did the construction end?	
(5 marks)		

29. (a) Using a ruler, a pencil and a pair of compasses only, construct triangle ABC where line AB=7cm, angle CAB=60° and angle ABC=75°. Drop a perpendicular line from C to meet AB at M.

- (b) Measure line CM. (5 marks)

30. (a) Joan went shopping and bought different items as shown in the table below.

Item	quantity	Unit price	Amount
Sugar	2 kg	Sh. _____ per kg	Sh.10000
Tea leaves	_____ kg	Sh.4000 per kg	Sh.2000
Milk	_____ litres	Sh.1200 per liter	Sh. _____
Bread	1 loaf	Sh.5500 per loaf	Sh.5500
Total Expenditure			Sh. _____

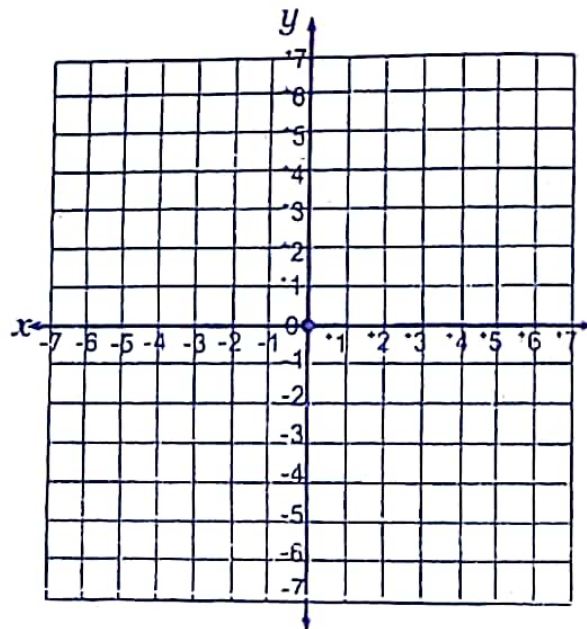
If she went with Sh.20, 000 and was given a change of Sh.300.complete the table.

(5 marks)

31. Three taps A, B and C are connected to a water tank. Tap A fills the water tank in 6 hours, tap B fills the water tank in 4 hours while tap C empties the tank. If all taps take 12 hours to fill the tank when open at the same time, how long does tap C take to empty the same tank?

(5 marks)

32. (a) Plot the following co-ordinates on the grid below.
 $A(3, 3)$, $B(2, 0)$, $C(2, 2)$ and $D(0, 2)$



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

- (c) Name the quadrilateral formed.

(5 marks)

END