

ST. CHARLES LWANGA PRI.SCH.KAWANDA

PRE MOCK SET 6 2024

MATHEMATICS

Time allowed: 2 hours 30 minutes

INDEX NUMBER:

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NAME:

SCHOOL:

DISTRICT:

Read the following instructions 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. 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.
6. Do **not** fill anything in the boxes indicated “**for official use only**” and those inside the question paper.

FOR EXAMINERS’

USE ONLY

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Qn. No.	MARKS	EXR’S NO.
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A

1. Work out: $-7 - -5$

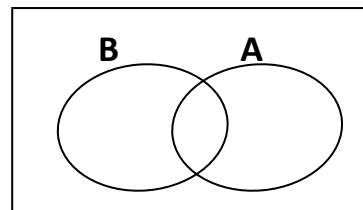
2. Write $\frac{1}{4}$ as a decimal.

3. If set **W** has 64 subsets, how many elements does set **W** have?

4. Subtract the value of 3 from the value of 9 in the number 9832

5. Remove brackets: $2(y-2)+3(y+2)$

6. Shade the complement of $A \cup B$ in the figure below.

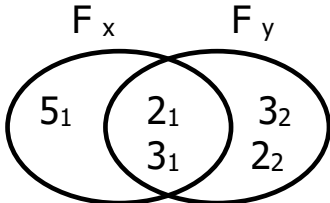


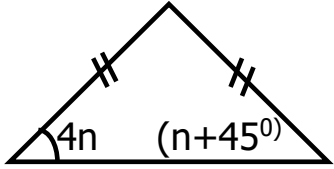
7. Convert 30 centimetres to metres.

8. using a ruler and a pair of compasses only, construct an angle of 60°

9. Convert 5M/s to Km/h

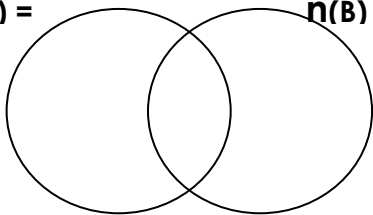
10. Show XV on an abacus

11	. Find the circumference of a circle whose radius is 14metres.(Use π as $\frac{22}{7}$)	12	Write 1,000,002 in words.
13	<p>The diagram below shows the prime factors of x and y.</p>  <p>What is the LCM of x and y?</p>	14	Solve the inequality and write the solution set: $15 \leq 3P \leq 30$.
		15	Today is Wednesday, What day of the week will it be 23 days from now?
16	Paul and Mary shared some money in the ratio of 5 : 7 respectively. If Mary got shs.3500, how much did Paul get?	17	A meeting which started at 10:45am ended at 1:15Pm. For how long did it last?

18	<p>In the triangle below, find the value of n.</p> 	19	<p>The probability that Peter will go to school today is $\frac{2}{7}$. What is the probability that he will not go?</p>
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20	Solve: $2^y \times 2 = 16$
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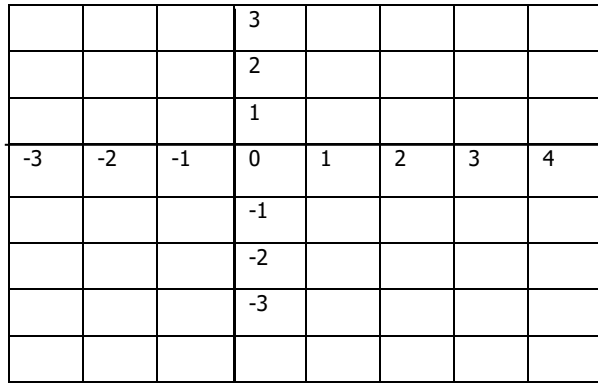
SECTION B

21	<p>In a class of 40 pupils, 25 like football (F), 'y' pupils like only Basketball (B), 13 like both games while 5 pupils do not like either of the games.</p> <p>(a) Represent the above information on the Venn diagram below. (02marks)</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <div style="display: flex; justify-content: space-between; align-items: center;"> $n(F) =$  $n(B) =$ </div> </div> <p>(b) Find the value of y (02marks)</p> <p>(c) How many pupils like basketball? (02marks)</p>
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22	Mr. Mwebe spends 0.2 of his salary on fees, 0.3 on food, 0.4 on medical care and saves the rest. Using a radius of 3.5cm, draw an accurate pie chart to show the above information. (6mks)
23	a)The average age of 8 pupils is 15 years. If 2 pupils whose age is 10yrs and 14 yrs leave the group, what is the average age of the remaining pupils? (3mks)
b)	If the average of $x, 3x, 7x, 4x$ and 0 is 6, find x (2 mks)
24	Jane used $\frac{1}{3}$ of her salary on food, $\frac{2}{5}$ of the remainder on clothing and saved the rest of her salary. (a) What fraction of her salary did she save? (3mks)

b) If she saved sh.42000, find her monthly salary. (2mks)

25	Plot these points on the grid below P(-2,-1),Q(-2,2),R(3,2),S(2,-1)
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b)	Join P to Q, Q to R, R to S, and S to P
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(2mks)

26	a) At ST. Charles Lwanga P/S, the Main hall is 180m South of the Administration and one of the Dormitories is 270 m from the main hall on a bearing of 300° .
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a) Draw a sketch to show the above

b) Using cm to represent 30 construct an accurate diagram to show the above structures?

- 27 The sum of the values in the table below are the same horizontally and vertically, and diagonally. Fill in the missing values to complete the table.

		28	17
25	20	19	
	24	23	18
26	15		29

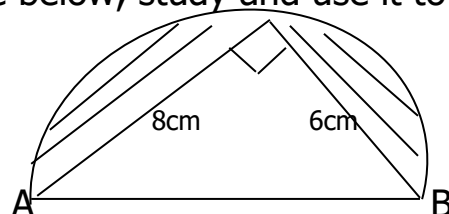
- 28 Agnes bought the following items from a shop;

- 3 bars of soap at sh 6,000 per bar
- 1 $\frac{1}{2}$ kg of sugar at sh 5,000 per kg
- $\frac{1}{2}$ kg of salt at sh 1,000 per kg

a) What is his total expenditure?

b) If she had sh.50,000, what was her balance?

- 29 Given the figure below, study and use it to answer the questions that follows

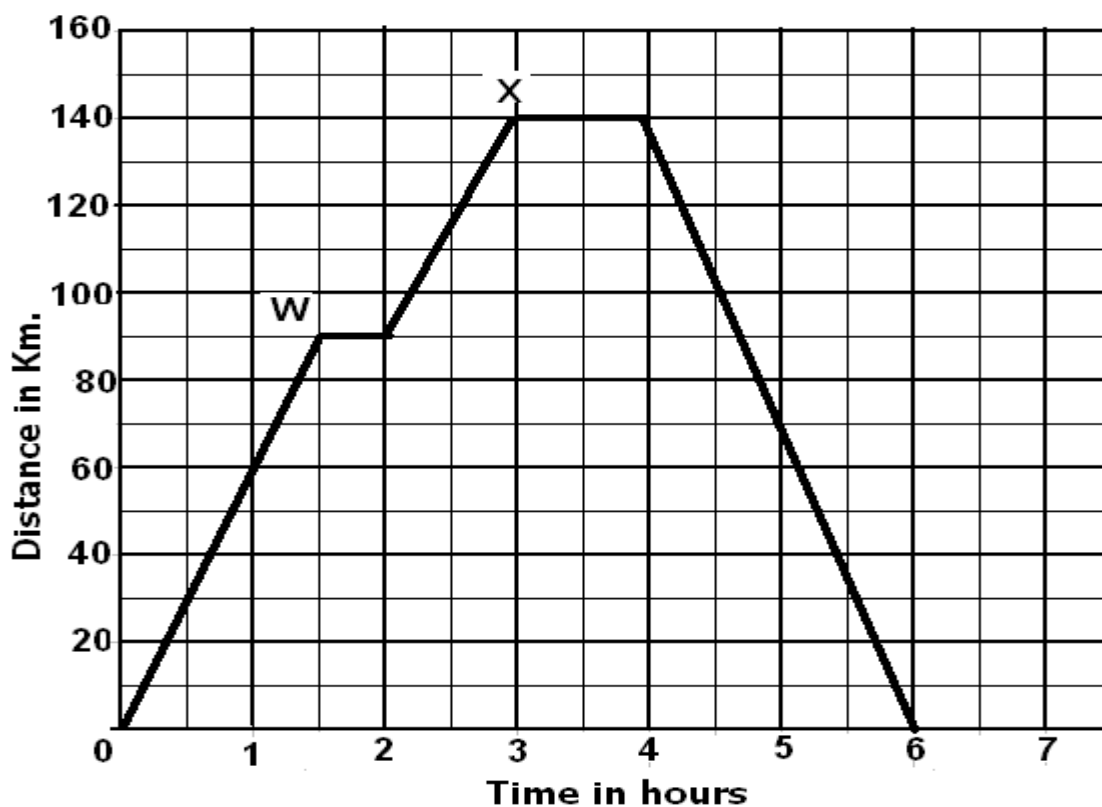


a) Find the length of line AB (2mks)

	b) Find the area of the shaded part. (2mks)	
30	a) In the triangle below, $\angle ABC = 50^\circ$. Find the value of y <div data-bbox="236 409 730 633" data-label="Diagram"> </div>	
	b) The interior angle of the regular polygon is 36° more than its exterior angle. What is the size of each exterior angle?	
31	The diagram below shows a big box 60 cm long, 50 cm wide, 40 cm high and a small box 6 cm long, 9 cm wide, and 9 cm high. <i>Study it carefully and answer the questions that follow</i> <div data-bbox="288 1193 724 1491" data-label="Image"> </div> <div data-bbox="970 1232 1209 1447" data-label="Image"> </div>	
	If such small boxes are to be packed into big box,	
	a) how many layers will fill the box?	b) How many small boxes will fill the big box?

32.

The travel graph below shows Odinya's journey from his home to town X by way of town W and back home. Use the graph to answer the questions that follow.



- (a) What was his speed from home to town W? (2marks)
- (b) How far apart are town W and X? (1 mark)
- (c) Work out Odinya's average speed for the whole journey. (2marks)

*******GOD BLESS*******