

ALLIANCE STANDARD SECONDARY SCHOOL

END OF TERM 2 EXAMS 2022

S.1 MATHEMATICS

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS:

Attempt all the questions.

1. In an examination, 3 marks were awarded for the correct answer, 1 mark is deducted for a wrong answer, for a question attempted. If a student gets 6 correct responses from 10 questions attempted,
 - a) How many marks will the student get?
 - b) Find the percentage mark the student will get.
2. Write the following numerals in words.
 - a) 260,117,888
 - b) 341,583,440,000
3. a) Find the sum of all prime numbers between 20 and 30.

b) Given that $A = \{\text{all even numbers below } 10\}$

$B = \{\text{odd numbers below } 20\}$. Find $n(A \cup B)$

4. In a hospital, a doctor checks on a patient after every 36 minutes while the nurse checks on the same patient after every 24 minutes. If they last checked on the patient together at 9:00am, at what time will they next check on the patient at the same time?
5. A car broke down after covering $\frac{3}{8}$ of the journey. Find the fraction of the remaining part of the journey. If there were 40km left to complete the journey, how long was the journey?
6. Kamya is a sugarcane trader; he buys sugarcane from farmers and sells it to sugar factories. He owns a lorry which he uses to transport the sugarcane. One day upon delivery to sugar factory, his loaded lorry had a total of 13.2 tonnes as measured by the factory's weighing bridge.
After offloading the sugarcane, the factory measured the weight of his lorry as being three eighths of the total weight when it was loaded. Help kamya to establish how much money he will be paid if he is told by the factory that they will pay UGX 504060 for each tonne of sugarcane.

END

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S.2 MATHEMATICS

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS:

Attempt all the questions.

1. A school has organized a sports tournament amongst the four teams of the school: Nile, Kafu, Kagera and Ssezibwa. The game master has been provided with UGX 2,000,000 to be shared amongst the four houses as follows.
There were four games to participate in and the house performance was as shown below.

Points

Houses	football	Netball	athletics	Debate
Nile	6	5	23	5
Kagera	5	6	18	4
Ssezibwa	7	7	13	7
Kafu	3	7	22	3

Conditions for the awards.

Position	Percentages (%)
1	50
2	30
3	15
4	Remainder

Task: Help the game master share the money amongst the participating houses.

In your opinion, how do u think you can benefit fit from sports.

2. Express the following decimals as fractions.
- a) 0.432121.....
- b) 1.5454.....
3. A trader bought $\frac{1}{2}kg$ packet of sugar and packet it into packets of $\frac{1}{8}kg$ each.
- a) How many small packets of $\frac{1}{8}kg$ did the trader get?
- b) If the trader sold each small packet at UGX 500,
- i) How much money did the trader get?
- ii) What was the cost of 1kg of sugar?
4. The table below represents the height and mass of students. Study it carefully and use it to plot a scatter graph.

Name	Joan	Juma	Rose	Opio	Kato	Ronald	Grace	Robert	Aggrey	Phiona
Height (cm)	180	175	160	155	185	170	150	160	165	175
Mass (kg)	85	90	85	60	85	65	70	70	60	75

5. a) Construct triangle ABC, where $AB = 8\text{cm}$, angle $ABC = 45^\circ$ and angle $CAB = 60^\circ$.
- b) Measure i) lines BC and AC ii) angle ACB

END

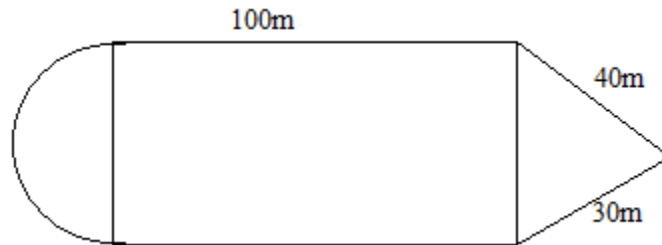
ALLIANCE STANDARD SECONDARY SCHOOL

S.2 MATHEMATICS ACTIVITY OF INTEGRATION 5

TIME: 40 MINUTES

NAME:.....

Juma wants to construct a perimeter wall around his plot of land. The plot of land is semi-circle at one end and has a right angled triangle shape at the other end. The middle part of the land is rectangular.



Materials: A Geometry set, pen, pencil, paper.

Task: juma asks you to accurately construct the foundation plan for the perimeter wall.

Explain how you have accurately constructed the perimeter wall plan. Discuss whether there are other ways of drawing an accurate plan.