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MATHEMATICS

SECTION A

1. Work out: $233 + 77$

2. Write CDL in Hindu Arabic numerals.

3. How many elements are in a set which has 31 proper subsets?

4. Simplify: $k - 3k + 7k$

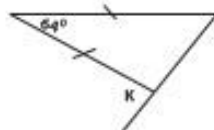
5. Express 720,000 in standard form.

6. Represent 1:30 on a clockface below.



7. A quarter a dozen of books costs sh.4,500. Find the cost of 5 books.

8. What is the size of angle k on the diagram below.



9. Simplify: $12 + -8$

10. Calculate the circumference of a circle whose radius is 5dm
(Take $\pi = 3.14$)

11. Express $2\frac{1}{2}\%$ as a fraction in its simplest form.

12. Isa can drive at a speed of 72km/hr.
Express his speed in metres per second

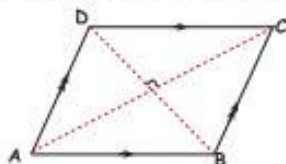
13. The cost of a phone in country X is three times the cost of the same phone in country Y. The difference in costs is sh. 30,000.
Find the cost of that phone in country Y.

14. Using a ruler and a pair of compasses only, construct an angle of 105°

15. Find the median score of the following scores: 7, 3, 4, 9, 10, 4, 5, 10

SECTION B

16. a) The figure below is a rhombus ABCD, where $AC = 24\text{cm}$ and $BD = 10\text{cm}$. Find length AB.



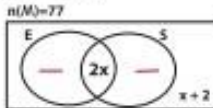
b) Find the area of the rhombus.

17. 480 pupils and their 24 teachers went to a restaurant. Each person was served lunch at a cost of sh. 12,500 and a bottle of soda at sh. 2000.
(a) How much money did they pay for lunch and soda altogether?

(b) If they used buses to go for the tour, each carrying 42 people, how many buses were used?

18. In a class of 77 pupils, all of them like Mathematics (M), 40 like also English (E), $2x$ like all the three subjects, $5x+5$ like Science (S) and Mathematics only but $(x+2)$ like Mathematics only.

(a) Use the above information to complete the Venn diagram drawn below.



(b) Find the value of x .

(c) How many pupils like both Mathematics and Science?

19. a) Using a pair of compasses, a ruler and a pencil only, construct a triangle ABC, where $AB = 6\text{cm}$, $BC = 8\text{cm}$ and angle $ABC = 90^\circ$.

(b) Measure $AC =$ _____ cm.

20. The exchange rate at ZIKE forex bureau are as follow:

1 British pound sterling (£) = Ug sh 4400

1 Euro (€) = Ug sh 3800

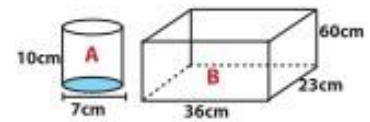
1 Kenya shilling (K.Sh) = Ug sh 35

a) Convert Ug sh 2,600,000 to British pound sterling.

b) If a radio costs € 105, find its equivalent cost in Kenya shillings.

21. If $\frac{1}{3}$ of the food bought was eaten on Monday $\frac{1}{4}$ of the remainder eaten on Tuesday, and the left 24kg was eaten on Wednesday,
How many kg of food were bought altogether?

22. Tin (A) was used to draw milk from rectangular tank (B).



a) How many full tins (A) of milk were drawn from tank B? (Take $\pi = \frac{22}{7}$)

b) Calculate the volume of milk left in tank B.

23. The interior angle of a regular polygon is 36° more than the exterior angle.

(a) How many sides has the polygon?

(b) Work out the interior angle sum of the polygon.

ENGLISH ANSWERS TO ISSUE 18 (18TH JULY 2024)

- 1.on
- 2.were
- 3.who
- 4.that
- 5.is
- 6.have been writing
- 7.badly
- 8.dyeing
- 17.children's parties
- 18.bitch
- 19.widower
- 20.digital video disc
- 21.short message service
- 22.cannot
- 23.proposed
- 24.beginning
- 25.plan,plane, perfume, polish
- 26.share, sheep, shepherd,sheik
- 27.unhappy
- 28.laughing
- 29.and 30 consider usage.
- 31.Although he was poor,he managed to smile.
- 32.The villagers said that Peter was accused of theft.

- 9.injection
- 10.father
- 11.had left
- 12.hurriedly
- 13.talking
- 14.walking
- 15.are
- 16.kilograms

- 33.He said that he was afraid of rats.
- 34.None of the girls is lazy.
- 35.Nahirwe is too young to go to school.
- 36.Mary was so tired that she couldn't keep her eyes open.
- 37.A friend of mine has a job with MTN
- 38.A big brown sheep is crossing the road.
- 39.One ought to be polite.
- 40.aren't I?
- 41 a.Hello, I am Richard Green.
- b.I come from England/Britain.
- c.Yes.I am.Where do you come from Colbert?
- d.Are you an American?
- e.Do you live near Mpigi?
- f.Is your home near the Equator?
- g.I would wish to go there, but I am sorry I am traveling back home.
- 42.1.The notice is about a debate.
- 2.The notice was written on 6th June 2024.
- 3.The debate will last for one hour and fifteen minutes.
- 4.The Head of Department English put up the notice.
- 5.The debate will take place at Bukasa

- Academy main hall
- 6.The motion is, Examinations Should be Abolished.
- 7.versus
- 8 People who speak against the motion are the opposers.
- 9.Primary seven and primary six are going to debate.
- 10.Bukasa Academy and Najjera Junior School are going to have this motion.
- 43 a. The writer is ten years old.
- b. The sister was sold two years ago.
- c.Five people came before the sister was sold.
- d.Nyamalo's family liked the husband because he came from a rich family.
- e.Blankets, money and beer were given to Nyamalo's family.
- f.Nyamalo was at school when she was sold.
- g.Tumuku refused to bring Nyamalo home because he wanted her to complete school first before marriage.
- h.Nyamalo screamed because she didn't want to get married.
- j.Tumuku's father wouldn't listen to him he

had been given money,beer and a blanket by Nyamalo's husband.

h. NYAMALO GETS MARRIED

1	2	3	4	5	6	7	8	9	10
3	5	7	10	8	2	9	4	6	1

45 POINTS TO NOTE

- An official letter
- Your school address
- Date
- Write to the Headmaster of your first choice school
- Statement about your PLE results and that you scored aggregate 4.
- Application for a vacancy in Senior one
- Mention other abilities like games and sports.
- Mention any other responsibility you had in primary school like:Head monitor,Headboy, Head girl etc.
- Include two referees.
- Yours faithfully,
- Signature
- Writer's name in block letters

- 1) Give one importance of school attributes.
- 2) Write ECOMOG in full.
- 3) How is nationalism promoted at school among learners?
- 4) Why is land called a renewable resource?
- 5) In which compass direction does river Nile flow from Uganda?
- 6) Why is navigation on some rivers in Africa difficult?
- 7) How did Lord Delamere promote animal husbandry in Kenya?
- 8) Name the pastoral tribe found in Nigeria.
- 9) State any one role of the electorates at a polling station?
- 10) Why is the government of Uganda through NEMA, evicting people from wetlands?
- 11) How do civic leaders assume power/authority?
- 12) State the main cause of land grabbing in Uganda today.
- 13) What is land consolidation?
- 14) Why is fishing not carried out in lake Katwe?
- 15) Why does ILO advocate for the rights of people?
- 16) How has the growing of sisal in Tanzania supported livestock farmers?



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SOCIAL STUDIES

SECTION A

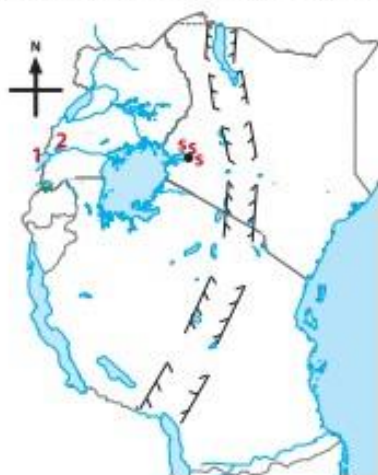
- 17) In the space provided, draw a map symbol for a rift valley
- 18) Why is a zebra crossing on major roads and highways painted using bright colours?
- 19) How did Henry Sylvester Williams promote Pan - Africanism in Africa?
- 20) Why do high altitude areas above 4500m have snow?
- 21) How is the government of Uganda helping its people to get out of poverty?
- 22) Why do we need LC 1 courts in communities?
- 23) What is done by URA to ensure that Ugandans pay taxes?
- 24) Which resistance against colonial rule in Uganda was based on forced gun registration?
- 25) Why do security organs like police and UPDF put up road blocks on roads?

FOR NUMBERS 26 TO 30, ANSWER EITHER CHRISTIANITY OR ISLAM BUT NOT BOTH IN A NUMBER

- 26 Either) Who was the first person to be made by God?
- OR) Who was the first human being Allah created?
- 27 Either) How is reconciliation important among Christians?
- OR) How is reconciliation important to Moslems?
- 28 Either) Why did Satan tempt Jesus while in the desert?
- OR) Why does Satan lead Moslems into temptations?
- 29 Either) Why did Noah curse his son Ham?
- OR) Why did prophet Nuuhu curse his son Ham?
- 30 Either) Why should religious leaders dress decently?
- OR) Why should religious leaders dress decently?

SECTION B

- 31) Use the map below and answer questions that follow



- a) Which arm of the rift Valley is shown on the map above?
- b) Name the water channel that connects lake numbered 1 and 2.
- c) Use letter "R" and mark the smallest country among the EAC member states
- d) Which interlacustrine kingdom was formed in area marked SSSS
- 32a) Why did Africans demand for independence from the colonial governments?
- b) Mention any two prominent nationalists who fought for independence in Africa.
 - i) _____
 - ii) _____

- c) State any one problem nationalists faced in their struggle to get independence in Africa.

33.a) State two positive effects of exploration work in Africa.

- i) _____
 - ii) _____
- b) Give two ways how RGS was helpful to early explorers who came to Africa?
- i) _____
 - ii) _____
- 34a) What are multi-purpose river projects?

b) Which multi-purpose power dam was set up on river Volta in Ghana?

c) State two economic importance of rivers to a country.

- i) _____
- ii) _____

35) Study the map below and use it to answer questions that follow.



a) For which country is the above map?

b) Mention the region of Africa where the country shown above belong.

c) How has water body marked with letter K promoted crop farming in the above country?

d) Name the sea port marked with letter S.

36a) Why is burial ceremony called a social activity?

b) Apart from burial, give two other examples of activities that can cause social gatherings of people.

c) State any one importance of social gatherings.

37a) Why were trade companies set up during colonial time?

b) How did the missionaries benefit from the existence of trade companies?

c) Mention two trade companies which operated in East Africa during colonial times.

i)

ii)

38.a) Michael earns shs 1200000 million monthly salary and spends as shown below.

Food.	Shs400000.
Rent.	Shs300000.
Transport	Shs200000.
Medical.	Shs200000.
Savings.	Shs100000.

a) What type of budget does Michael use?

b) What is Michael's total monthly expenditure?

c) State any two importance of preparing a budget before spending money.

i)

ii)

FOR QUESTIONS 39 TO 40 ANSWER EITHER CHRISTIANITY OR ISLAM ONLY BUT NOT BOTH IN A NUMBER

39 Either) a. What is injustice?

b) State any two forms of injustice among people.

i)

ii)

c) Give any one effect of injustice.

OR) a. What is injustice?

b) Give any two forms of injustice among people.

i)

ii)

c) State any one effect of injustice.

40 Either) a. In which two ways did Jesus Christ demonstrate selflessness to people?

b) Give two dangers of selfishness among people.

i)

ii)

OR) a. Mention two ways prophet Mohammad showed unselfishness to people.

i)

ii)

b) State two effects of selfishness among people.

i)

ii)

INTEGRATED SCIENCE ANSWERS TO ISSUE 18 (18TH JULY 2024)

1. Oxygen.

2. By immunising children using BCG vaccine/ By boiling milk before drinking

3. Babies bones are made up of cartilages that are not fused

4. A mushroom reproduces by means of spores while a bean plant reproduces by means of seeds.

5. It may lead to death

6. Soaking loosens dirt on a cloth / softens the cloth

7. Floods / landslides/ volcanic eruption/ drought

8. Vein

9. Blood vessel H supplies the rest of the arteries with oxygenated blood.

10. Scabies/ impetigo/ nose and ear sores

11. To reduce friction when milking.

12. Sheet erosion.

13. To protect the flower during bud stage.

14. Jik will kill maggots which help to reduce the volume of faeces in

a latrine.

15. The image is inverted/ real / diminished.

16. Biogas/ wood fuels.

17. North Pole.

18. Magnetic lines of force run from the North pole to the south pole

19. Children can easily access drugs and swallow leading to drug poisoning

20. Soft boards help to absorb sound waves

21. A baby is borne with natural immunity against measles which lasts for 9months.

22. By vasoconstriction.

23. Alveoli are many in numbers making their work easy.

24. Development of wounds on the rabbit ears.

25. Vitamins are already soluble.

26. Cilia helps to clean the air we breathe in by filtering dust and germs

27. Both convert mechanical energy inform of kinetic energy to

electrical energy

28. To prevent the gas from escaping.

29. Docking.

30. Dehydration.

Section B

31 a) i). Fever

ii) Near drowning

iii) Strain/ sprain

b) Sugar attracts houseflies which infect the wounds

32 a) Flying mammals/ Chiroptera

b) By the help of echoes

c) Both produce their young ones alive / Both undergo internal fertilisation.

d) Outbreak of Ebola/ their faeces smell badly.

33 a) poultry is a project because it's an activity a person opens to generate income.

b) It can act as a source of food to the school children.

- It can also act as a source of income when the poultry products are sold.

c) By feeding birds well.

34 a) i). Extensor muscles are muscle that contract to straighten the arm.

ii) Flexor muscles are muscles that contract to bend the arm.

b) i). Triceps muscles

ii) Biceps muscles

35 a) self pollination

b) Insect pollinated flowers have brightly coloured petals

- Insect pollinated flowers have scent.

c) Pollination aids fertilisation in a flower.

36 a) aqueous humour.

b) Forms the shape of the eyeball / refracts and focuses images on the retina.

c) Both send images to the brain for interpretation.

d) Eyeball being too long / eye lens being too thick.

37 a) A health survey is the act of gathering information about the health of people in an area.

b) Type of food eaten by people in an area

- Type of houses people sleep in
- Diseases affecting people in an area/ kind of water sources available

c) It enables the government to know which health services to offer to the people.

38 a) Circulatory system.

b) Hormones/ digested food/ antibodies/ wastes.

c) To pay oxygen debt.

39 a) Solar is used as a source of heat and light hence conserving non-renewable resources.

b) Crude oil / coal.

c) By using them sparingly.

40 a) Both produce a lot of milk.

b) Wastes for biogas generation/ Horns.

c) For checking whether water has been added in milk or fats have been removed.

d) Through application of quarantine / Slaughtering and burning the carcasses of infected animals / By carrying out regular vaccination of animals.