

# THE SIPRO PRE-PLE SET II 2024

## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.	EMIS No.	Personal No.

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

EMIS No. \_\_\_\_\_

District ID: \_\_\_\_\_

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 40 questions (40 Marks).
3. Section B has 15 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B, must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

### For Examiner's Use Only:

Qn No.	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		o
50 - 52		
53 - 55		
Total		

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & HOLIDAY ASSIGNMENTS

**SEMAS** | Simplified Learning Today

[www.semas.one](http://www.semas.one)

## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the vector that spreads sleeping sickness among people.
- 

2. How does mulching control weeds in the garden?
- 

3. Give a reason why crop farmers should carry out weather forecasting.
- 

4. State **one** way of administering first aid to a fractured victim.
- 

5. Give any **one** reason why an earthworm dies when oil is poured on its body.
- 

The diagram below shows a common equipment used on a cattle farm. Study and use it to answer questions 6 and 7.



6. Identify the above equipment used by cattle farmers.
- 

7. How is the above equipment adapted to its function?
- 

8. Name any **one** nitrogenous compound found in urine.
- 

9. Mention any **one** similarity between the body structure of an insect and that of an arachnid.
- 

10. Name the type of pit latrine which requires a lid on its squat hole.
- 



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION.

11. State the main cause of constipation in human beings.

---

12. Mention any one lifeskill that can safeguard the youth against drug abuse.

---

13. Give one reason why cooking pans have handles made of insulators.

---

14. State the importance of soaking clothes before washing them.

---

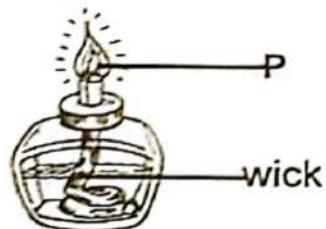
15. Write any one danger of swamp drainage.

---

16. Mention the intestinal worm that causes itching around the anus at night.

---

The diagram below shows a burning candle. Study and use it to answer questions 17 and 18.



17. Give one form of energy found at part marked with letter P.

---

18. What type of change takes place when the wick of the candle burns?

---

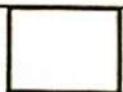
19. State any one way domestic animals increase chances of spreading diseases at home.

---

20. Why is the rate of transpiration in banana plants higher than that in a bean plant?

---

---



21. Give any one characteristic of images formed in a periscope.

---

22. Mention any one product obtained from practising apiculture.

---



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION

2

23. Give any one way of promoting food security in a home.

24. State any one way of increasing the efficiency of wedges as simple machines.

25. Why should a COVID-19 victim be isolated from healthy people?

26. How do plants benefit from bees visiting them?

27. State the method of planting which controls wastage of seeds.

28. Mention any one vaccine administered to babies at birth.

29. What will happen to the pitch of a guitar if its strings are tightened?

30. In which one way can a school health committee solve the problem of a bad smell in a latrine?

31. State any one way pulleys can be useful in a school.

32. Apart from free range system, give any other method of rearing poultry in Uganda.

33. State the behaviour of a piece of paper when placed in a basin full of water.

34. Name the fungus which grows on bread that has overstayed.



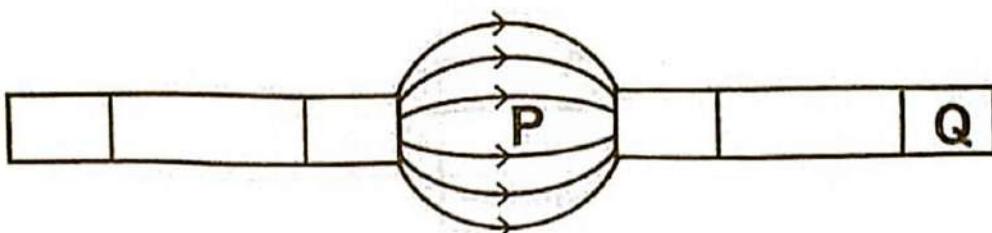
© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

3

The diagram below shows two bar magnets. Study and use it to answer questions 35 and 36.



35. Identify the pole marked with letter Q.

---

36. Name the force which exists at point marked P.

---

37. Name the bone which joins the elbow to the shoulders.

---

38. How important is pricking out to crop farmers?

---

39. Why should the floor of a goat shed be made with a slanting surface?

---

40. Why do health workers screen blood before transfusion?

---



#### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) State any two examples of chemical changes which can occur in a school kitchen.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Give any two ways chemical changes are important to people in the environment.

i) \_\_\_\_\_

ii) \_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, DEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION.

42. The table below shows childhood immunisable diseases, vaccines and the body site of administration. Complete it correctly.

Disease	Vaccine	Site of administration
Tuberculosis	i) _____	Right upper arm
ii) _____	Polio vaccine	Mouth
Measles	Measles vaccine	iii) _____
Hepatitis	iv) _____	Left upper thigh

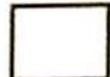
43.a) Which type of soil has the following characteristics?

i) lowest drainage \_\_\_\_\_

ii) lowest capillarity \_\_\_\_\_

b) How are fungi useful during soil formation?  
\_\_\_\_\_

c) State the reason why materials are changed from one kit to another  
when making compost manure.  
\_\_\_\_\_



44. a) State any two ways you can care for vulnerable people in your community.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Give the meaning of the following terms;

i) invalid \_\_\_\_\_

\_\_\_\_\_

ii) convalescent \_\_\_\_\_

\_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

**45.** The diagram below shows an activity commonly done by crop farmers in rural areas. Study and use it to answer the questions that follow.



- a) Identify the method of separating mixtures shown in the diagram above.
- 
- b) Give any two examples of mixtures that can be separated using the above method.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- c) State the importance of wind in the above method.
- 

**46.a)** Write any two primary sex characteristics in both male and female adolescents.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) Why are adolescents advised to bathe regularly?

---

c) State any one danger of teenage pregnancies to adolescents.

---



**47.a)** Why does the level of water fall when an object immersed in water is removed?

---

b) Give any one object whose volume can be obtained by getting the product of the base area and its height.

---



© Sipro Educational Services Tel: 0414660050/ 0755-274011/0770-274011

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SENIOR, TEACHER'S GUIDE & PUPIL'S COMPANION.



c) Calculate the volume of an object whose mass is 40g and density is 8g/cc. (2 marks)

48. a) Mention any two examples of chicken reared mainly for meat production.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Write any two poultry management practices that reduce vices among poultry

i) \_\_\_\_\_

ii) \_\_\_\_\_

49. The table below shows different organisms. Study and use it to answer the questions that follow.

O	P	Q	R
centipede	tick	lobster	locust

a) Identify the group of invertebrates to which all the above organisms belong.

b) Mention one other organism that can be grouped with;

i) animal O \_\_\_\_\_

ii) animal P \_\_\_\_\_

c) How is organism marked O similar to organism marked R in the way they breathe?



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

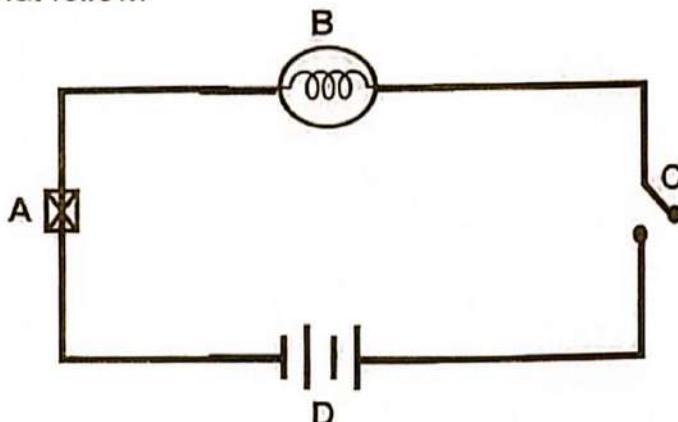
50.a) Mention any two factors considered when choosing trees to plant in Agroforestry.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) State any two advantages of practising agroforestry to a crop farmer.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

51. The diagram below shows an electric circuit. Study and use it to answer the questions that follow.



a) Identify the parts of an electric circuit labelled with letters A and C.

- i) A \_\_\_\_\_
- ii) C \_\_\_\_\_

b) Give the importance of the part labelled D in the electric circuit above.

c) State any one energy change that can take place at part B when C is closed.

52.a) Write any two dangers of living in a dusty environment.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) Mention any two activities people can do to reduce dust in the environment.

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

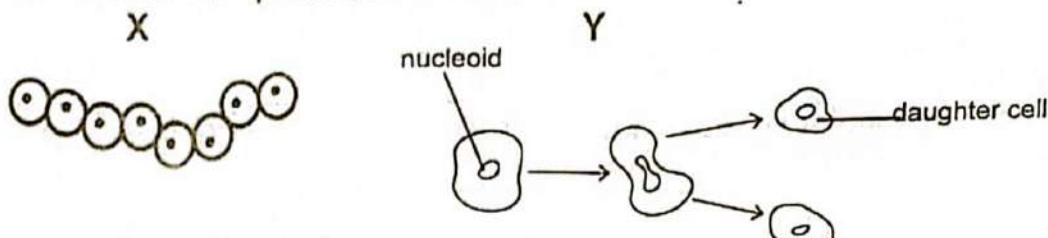


© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION

**53.** The diagrams below are of two modes of reproduction. Study and use them to answer the questions that follow.



- a) Name the modes of reproduction marked with letters X and Y.  
i) X \_\_\_\_\_  
ii) Y \_\_\_\_\_
- b) Name one organism that reproduces using the reproduction mode labelled Y.  
\_\_\_\_\_
- c) Which method of making alcohol involves the action of organism that reproduces by mode labelled X?  
\_\_\_\_\_
- d) How is reproduction an important process in organisms?  
\_\_\_\_\_
- 54.** a) Name the breeding place for a blackfly.  
\_\_\_\_\_
- b) Mention the disease spread by blackflies to people.  
\_\_\_\_\_
- c) Give two ways in which the spread of the disease mentioned in (b) above can be controlled.  
i) \_\_\_\_\_  
ii) \_\_\_\_\_

**55.** Table A shows garden tools and table B shows their uses in a wrong order.

A: Garden tools	B: Uses
garden fork	transplants seedlings
sickle	mixes and turns manure.
trowel	helps in spacing seedlings.
measuring tape	harvests cereals

Select from the above, the correct uses of the garden tools and write them in the spaces provided:

- i) garden fork \_\_\_\_\_  
ii) sickle \_\_\_\_\_  
iii) trowel \_\_\_\_\_  
iv) measuring tape \_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 PRE-PLE SET II INTEGRATED SCIENCE 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION.

# THE SIPRO PRE - PLE SET II 2024

## MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Index No.	EMIS No.	Personal No.

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

EMIS No. \_\_\_\_\_

District ID: \_\_\_\_\_

### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:  
"FOR EXAMINER'S USE ONLY"

### For Examiner's Use Only;

Qn No.	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Page 10		
Page 11		
Total		

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS

**SEMAS**

| Simplified Learning Today

[www.semas.one](http://www.semas.one)



CamScanner

## SECTION A: 40 MARKS

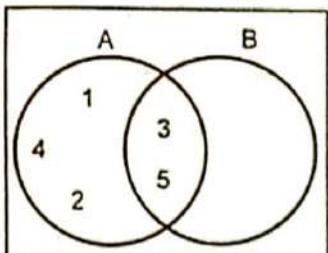
Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out:  $97 - 15$

2. Simplify:  $5ab + 2ab - 3ab$

3. In the venn diagram below, find  $n(B - A)$



4. Write CDX in Hindu-Arabic numerals.

5. Cooking oil is sold in 25ml packets. Nyapendi bought 0.5 litres of cooking oil. How many packets did she buy?



© Sipro Educational Services Tel. 0414609050/ 0755-274911/0776-274911

P.7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024  
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS

1

6. Matayo took 19 days weeding his cassava garden. He completed weeding the garden on Friday. What day of the week did he start weeding his garden?
7. Express 300 as a product of its prime factors.
8. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $67.5^\circ$ .
9. Aminah is 7 years old and Liz is 12 years old. How old will Aminah be when Liz is 18 years?
10. Convert  $320_{\text{five}}$  to base ten.



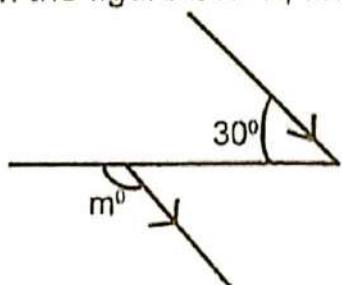
© Sipra Educational Services Tel: 0414969050; 0755-274911/0776-274911  
P.7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THIS AUTHORITY-BACKED SERIES. TEACHER'S GUIDE & PUPIL'S COMPANION

2

11. Express 40 centigrams as a percentage of 2 grams.

12. In the figure below, find the value of  $m$  in degrees.



13. Using digits 3, 8 and 4, form two, 3-digit numbers divisible by 6.

The smallest number divisible by 6	<hr/> <hr/>
The biggest number divisible by 6	<hr/> <hr/>

14. Solve:  $2h - (3 - h) = 9$ .

15. Mawa sold a shirt at sh.18,000 and made a profit of sh. 2,000.  
Calculate his percentage profit.



© Sipro Educational Services Tel. 0414669050/0755-274911/0776-274911

P.7 MATHEMATICS PRE- PLE SET II EXAMINATIONS - 2024

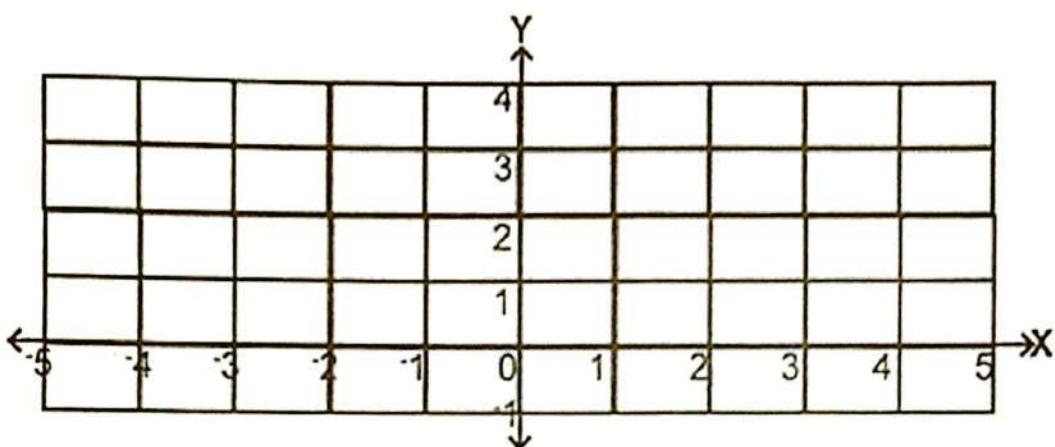
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, LEVELS, TEACHER'S GUIDES & PUPIL'S COMPANIONS

3



16. Aidah's watch is faulty. When the correct time is 6:40 a.m, Aidah's watch reads 7:10 a.m. What is the correct time if the time by Aidah's watch is 9:00 a.m?

17. Plot the points  $B(0, +3)$  and  $D(+2, -1)$  on the coordinate graph below;



18. The temperature of water ice was  $-19^{\circ}\text{C}$ . When the water was heated, the temperature rose to  $-5^{\circ}\text{C}$ . What was the rise in temperature?



Sipro Educational Services Tel: 0414660050 0766-214811/0776-214811

R7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024  
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, WORKSHEETS, TEACHER'S GUIDE & PUPIL'S WORKBOOKS.



19. Work out:  $\frac{3}{4} \div 4$ .

4

20. The average mass of 6 boys in a group is 40kg. Two boys who weigh 40kg and 20kg leave the group. Find the total mass of the remaining 4 boys.

### SECTION B: 60 MARKS

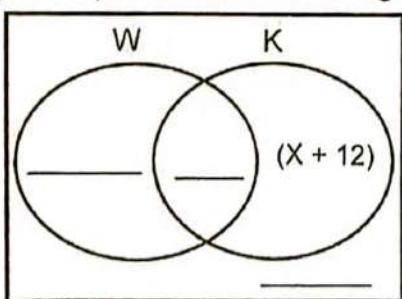
Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets.

21. In a class, 30 pupils enjoy teacher Wasswa's lesson (W), 29 enjoy teacher Kato's lesson (K), 13 of the pupils who enjoy teacher Wasswa's lessons also enjoy teacher Kato's lessons, and 'x' pupils enjoy other teachers' lessons.

(a) Complete the venn diagram below.

(03 marks)



(b) Find the value of x.

(02 marks)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

5

(c) How many pupils do not enjoy teacher Kato's lessons? (01 mark)

22. The table below shows how Mr. Oguti bought his items from the shop.

(a) Complete the table below. (05 marks)

Items	Quantity	Unit price	Total cost
Peas	$2\frac{1}{2}$ kg	Sh. 4,000 per kg	Sh. _____
Cooking oil	_____ litres	Sh. 8,000 per litre	Sh. 6,000
Sugar	$3\frac{1}{4}$ kg	Sh. _____ per kg	Sh. 13,000
Mushrooms	1,500g	Sh. 2,000 per kg	Sh. _____
Total bill			Sh. _____

(b) If he had sh. 40,000, how much did he remain with?

23. At the bus park, buses travelling to Arua and Bushenyi leave after every 40 minutes and 50 minutes respectively.

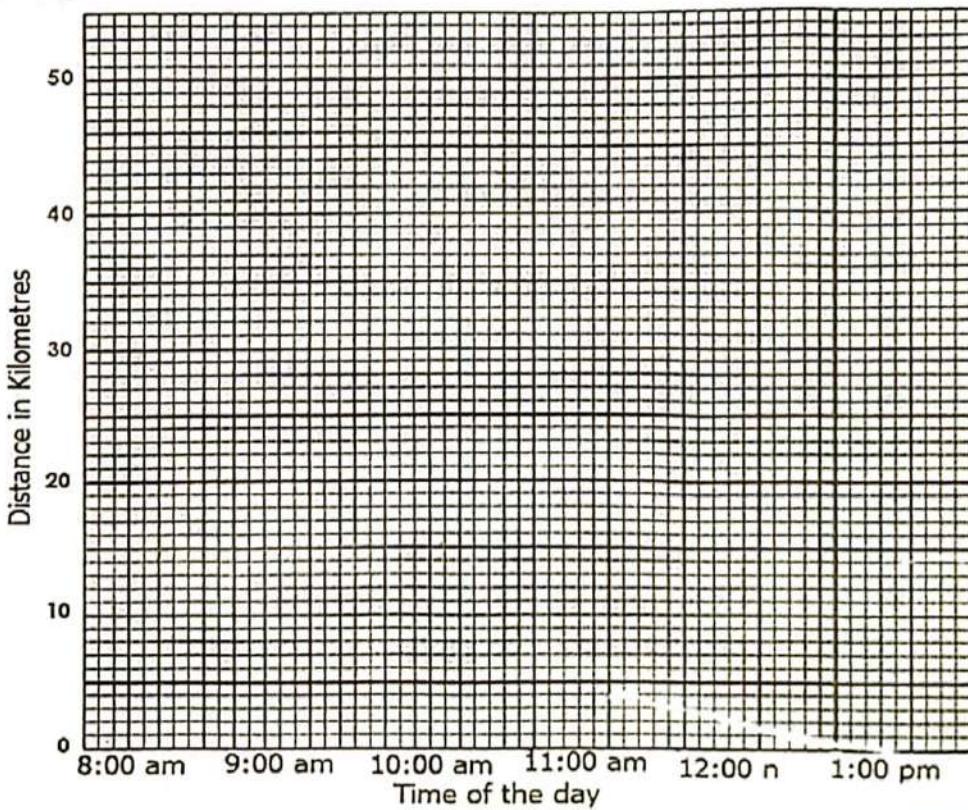
(a) After how long do the two buses leave together? (02 marks)



(b) The first buses leave together at 6:00 a.m. At what time do the buses leave together again? (03 marks)

24. Malaika started riding his bicycle from town A to town C through town B at 8:00 a.m. He rode from town A to town B at a speed of 15 km/h for 2 hours and then rested for  $\frac{1}{2}$  an hour. From town B, he rode to town C a distance of 20km at a constant speed of 8km/h.

On the graph given below, draw a travel graph to show Malaika's journey. (05 marks)



25. A cylindrical tin of diameter 28cm and height 20cm is full of paraffin. How many litres of paraffin will remain in the tin after using  $3,320 \text{ cm}^3$  of the paraffin? (Use  $\pi$  as  $\frac{27}{7}$ ). (04 marks)

26. (a) Solve for m:  $\frac{3m}{4} + 7 = 40$ . (02 marks)

(b) Solve the inequality below and write the solution set.  
 $6(x + 3) > 12$ . (03 marks)

27. (a) With the help of a ruler, sharp pencil and a pair of compasses only, construct a square PQRS whose diagonals measure 7cm. (04 marks)

(b) Measure the length QR of the square: \_\_\_\_\_ (01 mark)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

28. The average of 60,  $(2p - 18)$ , 81 and  $p$  is 75.

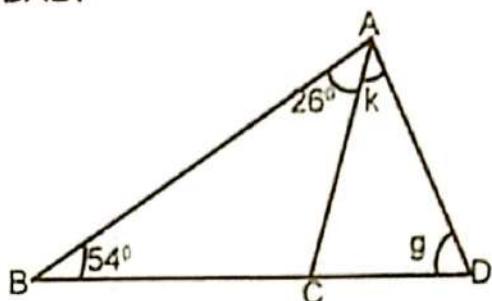
(03 marks)

(a) Find the value of  $p$ .

(b) Find the range of the scores.

(02 marks)

29. In the figure below, angle ABC =  $54^\circ$ , BAC =  $26^\circ$  and angle BCA is twice angle BAD.



Find the size of;

(a) angle marked  $k$ .

(03 marks)

(b) angle marked  $g$ .

(02 marks)



© Sipro Educational Services Tel: 0414660050 0755-274911/0776-274911

R.7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, TEACHER'S GUIDE & PUPIL'S COMPANION



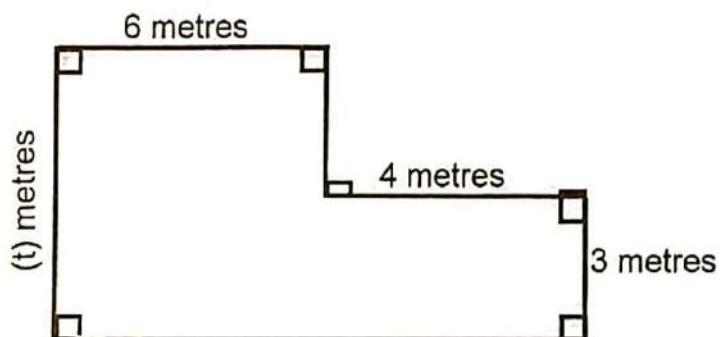
30. When a shoe seller sells a pair of shoes for sh.81,000, he makes a loss of 10%.

(a) Calculate the price at which he buys the pair of shoes. (02 marks)

(b) At what price should he sell the pair of shoes in order to gain 5%? (02 marks)



31. The figure below shows Matilda's flower garden. The area of the flower garden is  $60\text{m}^2$ . Study the figure carefully and use it to answer questions (a) and (b) that follow.



(a) Find the value of  $t$ .

(03 marks)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, GEMAS, TEACHER'S GUIDES & PUPIL'S COMPANION.

10

(b) Find the perimeter of the flower garden. (02 marks)

32. The timetable below is of a flight by a plane. Study and use it to answer the questions that follow.

AIRPORT	ARRIVAL	DEPARTURE
V		3 : 15 p.m
W	3 : 30 p.m	4 : 40 p.m
X	5 : 35 p.m	6 : 10 p.m
Y	6 : 25 p.m	

(a) Express the time the plane left airport V to a 24-hour clock system. (02 marks)

(b) Chandia arrived at airport X, 30 minutes before the plane left airport W. For how long was Chandia at airport X, before leaving for airport Y? (02 marks)

(c) If the speed of the plane between airport X and airport Y, was 640 km/h, what distance did the plane cover between airport X and airport Y. (02 marks)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 MATHEMATICS PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

11

# THE SIPRO PRE-PLE INTEGRATED SCIENCE SET II MARKING GUIDE - 2024

NO	CLASS LEVEL	CORRECT RESPONSE	WRONG RESPONSE	MARKING POINT	TECHNICAL ADVICE
1	P.3	Tsetse fly	Black fly	Should be tsetse fly.	Take learners through different vectors.
2	P.4	Mulches prevent weeds from getting sunlight / Mulches block weeds from getting sunlight.	Weeds are not in the garden.	Should be cutting off the supply of sunlight.	Guide them through different ways mulching helps in the garden.
3	P.4	To plan for farm activities / To know when to plant and harvest.	To know the farm activities.	Should be planning for the farm.	Discuss with learners the different weather instruments and their functions.
4	P.2/P.4	Tying splints around the fractured part / Carrying a person on a stretcher.	To reduce pain.	Should be tying a splint around the fractured part.	Take them through First Aid giving for the different accidents.
5	P.6	Oil blocks its breathing organ which is the moist skin / The earthworm stops breathing since the moist skin is blocked by oil.	Oil burns the earthworm.	Should be blocking the breathing organ.	Guide candidates through the different breathing organs in the different organisms.
6	P.6	Strip cup	Lactometer	Should be strip cup.	Take them through the different farm tools.
7	P.6	It has a wire mesh for filtering blood clots and pus in milk.	It has a wire mesh.	Complete adaptation with a function.	Take learners through the use of the different farm tools.
8	P.7	Uric acid / Excess mineral salts / Urea	Bile pigments	Should be a component of urine.	Guide learners through the components of the different excretory products.
9	P.6	Both have segmented bodies / Both have jointed legs / Both lack a backbone,/ Both have an exo skeleton.	Both have three main body organs.	Should be a characteristic of arthropods.	Guide them through arthropods and insects.
10	P.6	Ordinary / Conventional pit latrine	Ventilated Improved Pit latrine.	Should be ordinary / Conventional pit latrine.	Guide candidates through latrines and their features.
11	P.5	Lack of roughages in one's diet.	Is the difficulty in defaecation.	Should be a cause of constipation.	Take them through causes of digestive disorders.
12	P.6	Being assertive / Critical thinking / Good decision making / Self-awareness / Effective communication/ Focus and self-control / Self-confidence / Coping with stress / Creative thinking / Problem solving.	Feeding on a balanced diet / Doing regular body physical exercises.	Should be a life skill not a life style.	Guide learners through the difference between life skills and life styles.
13	P.5	To prevent the user's hand from being burnt.	They are poor conductors of heat.	Should be importance of using poor conductors of heat.	Guide candidates through the use of insulators in our daily life.

14	P.6	It dissolves stains / It softens clothes for easy washing / Loosens dirt in the clothes.	It is a good practice.	Should be how good it is to soak clothes before washing.	Take them through the steps involved in cleaning clothes and their importance.
15	P.3	It leads to reduced rainfall / Leads to floods / Leads to displacement of aquatic animals.	It leads to soil erosion.	Specify the dangers of destroying swamps.	Guide them through reasons why people have drained swamps.
16	P.4	Pinworms	Hookworm / Tapeworms	Should be pinworms.	Take learners through intestinal worms.
17	P.5	Heat energy / Light energy	Heat energy changes to light energy / Chemical energy changes to heat energy.	Should be a form of energy change.	Guide them through forms of energy and energy changes.
18	P.5	Chemical change	Physical change	Should be chemical change.	Take candidates through the different changes in the environment.
19	P.4	Domestic animals have fur in which vectors that spread germs hide / Domestic animals are hiding places for vectors.	Domestic animals destroy property at home.	Should be a way domestic animals increase chances of spreading germs that cause diseases.	Guide them through ways domestic animals increase chances of spreading diseases.
20	P.4	A banana plant has bigger leaves to carry out transpiration at a high rate while a bean plant has small leaves that reduce transpiration rate.	They have big leaves.	Correct and complete comparison.	Take candidates through factors that affect the rate of transpiration.
21	P.7	The images are upright / Laterally inverted / Images are of the same size as the object / Images are virtual / Image distance from the mirror is the same as object distance from the mirror.	The images are real, inverted and diminished.	Should be a characteristic of images formed in plane mirrors.	Guide them through types of mirrors and types of curved mirrors.
22	P.5	Honey / Propolis / Bee pollen / Beeswax / Bee venom	Nectar	Should be a product got from bees.	Take candidates through bees and their products.
23	P.4	Planting disease resistant species of crops / Early planting of crops / Storing food in food stores / Preserving food / Planting perennial crops.	Laziness/ Poverty	Should be a way of promoting food security.	Guide them through ways of promoting food security and causes of food insecurity.
24	P.7	Sharpening them / Cleaning them after use / Oiling the moving parts before use / Painting them.	Increasing the angle of inclination.	Should be improving the efficiency of wedges.	Guide pupils through improving the efficiency of all simple machines.
25	P.3	It prevents contact of the sick person with healthy ones/ Prevents easy spread of COVID-19.	It is a good thing.	Should be how isolation prevents spread of diseases among people.	Take learners through control measures of animal diseases.

					<b>Guide them through benefits of plants from bee visits.</b>
26	P.4	Flowers of plants get pollinated / Bees pollinate flowers.	They get nectar.	Should be plants to benefit.	Guide them through benefits of plants from bee visits.
27	P.4	Row planting method	Broadcasting / Casting method	Should be a method of planting which controls wastage of seeds.	Take learners through methods of planting seeds.
28	P.5	Polio vaccine / BCG vaccine	DPT vaccine	Should be a vaccine given to babies at birth.	Guide learners through different ages and the vaccine.
29	P.6	It will increase / It will be high.	It would reduce.	Should be high.	Guide them through increasing and reducing pitch by different musical instruments.
30	P.5	By smoking the latrine / By scrubbing the floor / By putting naphthalene balls.	They clean the latrines.	Should be a way to chase houseflies and reducing the bad smell.	Take candidates through ways of controlling bad smell in pit latrines.
31	P.7	They are used to hoist flags on flag masts / Raising building materials / Towing broken down vehicles [school vans].	They are useful.	Specify how useful they are.	Guide them through the uses of pulleys at school.
32	P.5	Deep litter system / Battery system/ Cage system / Pen system / Fold / Ark system.	Tethering method	Should be a method of rearing poultry.	Guide candidates through the methods of rearing poultry.
33	P.5	It will float / It floats / It will remain on top.	It will sink.	Should be floating.	Take them through sinking and floating.
34	P.5	Mould / Mucor	Mushroom	Should be mould.	Guide candidates through effects of each fungus.
35	P.7	Q - North Pole	South pole / N- Pole	Should be North pole	Guide learners on movement of magnetic lines of force.
36	P.7	Magnetism / Magnetic force	Force of repulsion	Should be attraction.	Take candidates through magnetic poles.
37	P.7	Humerus	Femur	Should be humerus.	Guide them through names of different bones.
38	P.4	Creates enough space among seedlings / Prevents competition for sunlight / For carbon dioxide/ sunlight and soil / Controls easy spread of crop diseases.	It is good to crop farmers.	The importance of pricking out.	Guide learners through crop growing activities.

39.	P.5	To allow easy flow of urine and goat droppings.	To be clean.	Easy flow of droppings and urine.	Guide them through care given to domestic animals.
40	P.6	To prevent easy spread of blood-related diseases like HIV/ AIDS infection.	To get clean blood.	Should be control of the spread of infectious diseases.	Take candidates through blood screening.
<b>SECTION: B</b>					
41	P.5	a) Rusting / Fermentation / Respiration/Burning/ Decomposition b) They help in making charcoal / Help in making alcohol / They enable them to get food/ Help in soil formation.	Freezing / Evaporation / Condensation They change the properties.	Should be a change that forms new substances. They should be of importance of chemical changes.	-Guide candidates through changes that take place in the environment. -Take them through the importance of the different changes that take place in the environment.
42	P.5	i) BCG vaccine ii) Polio iii) Left upper arm iv) Hep B vaccine	Polio injection / Right upper arm / BCG vaccine	Interchanged concepts	Guide them through not interchanging concepts.
43	P.5	a)(i) Clay soil b) They decompose organic matter to form humus / Form humus. c) Qn 43c) (one pit to another) To allow proper decomposition of materials.	Sand soil / Loam soil They grow in soil.	Should be types of soil. Importance of fungi in the soil. It should be correct reason for changing.	-Take learners through types of soil and soil layers. -Guide them through steps followed when making composite manure.
44	P.5	a) Feeding them on a balanced diet/ Washing for them clothes / Cooking for them / Feeding them. b) (i) Invalid is a person who has been weakened by a disease/ is a person with prolonged illness / A person who is very sick. (ii) A convalescent is a person recovering from an illness.	Giving them alcohol to drink.	Should be a good way of caring for vulnerable people. Is a person recovering from illness.	-Take learners through care for vulnerable people. -Guide them through invalids and convalescents.
45	P.5	a) Winnowing b) Millet mixed with husks / Sorghum / Rice / Beans with husks / Soya with husks / Beans with husks / Peas with husks c) Wind blows away the husks from seeds.	Is a person who has been weakened by sickness.	Should be a person who is recovering from an illness.	-Guide candidates through activities done using wind. -Take learners through examples of seeds separated by winnowing. -Guide them through energy resources and their uses.
46	P.6	a) Production of hormones / Production of gametes; (reproductive cells).	Wind helps in winnowing. Sweat glands become active.	Similar primary sex characteristics.	-Guide candidates th. 'nug difference between puberty and 'olescence.

		<p>i) To prevent bad body smell or odour / To help in controlling skin diseases.</p> <p>c) It can lead to school drop outs / It can lead to death during birth / Leads to self-neglect.</p>	To look attractive.	Should be scientific reason.	<ul style="list-style-type: none"> <li>-Guide them through menstruation and ovulation.</li> <li>-Take them through challenges of adolescents.</li> <li>-Take them through dangers of teenage pregnancy to adolescents.</li> </ul>
47	P.5	<p>a) To take up the volume that was being occupied by the object.</p> <p>b) A brick / Cylinder / A rectangular box / Cuboid / Cube</p> <p>c) Volume = Mass Density</p> $V = \frac{40g}{8g/cc} = 5cc$	<p>It can lead to STDs.</p> <p>Water is less dense than that object.</p> <p>Stone / Broken bottle</p>	<p>It is about pregnancy.</p> <p>Should be to take up the space that was occupied by the object.</p> <p>Should be an object with a proper shape.</p>	<ul style="list-style-type: none"> <li>-Take learners through displacement.</li> <li>-Guide them through objects that are irregular.</li> <li>-Guide them through calculation and formulae.</li> </ul>
48	P.5	<p>a) Light Sussex / Sykes / Cornish White / Jersey giant / Orpington / Plymouth Rock</p> <p>b) Debeaking / Putting few birds in a poultry house / Putting laying boxes in dark corners / Hanging green vegetables</p>	<p>Ancona / Minore / Brown egger</p> <p>Regular vaccination / Culling</p>	<p>Should be chicken kept for meat production.</p> <p>Control of vices among the poultry.</p>	<ul style="list-style-type: none"> <li>-Guide pupils through keeping poultry.</li> <li>-Take them through poultry management practices.</li> </ul>
49	P.6	<p>a) Arthropods</p> <p>b) (i) Millipede (ii) Mite / Scorpion / Spider</p>	<p>Arachnids</p> <p>(i) Housefly (ii) Millepede</p>	<p>Correct identification</p>	<ul style="list-style-type: none"> <li>-Guide candidates through invertebrates.</li> <li>-Guide them through examples of arthropods.</li> <li>-Take them through breathing of arthropods.</li> </ul>
50	P.7	<p>a) Maturity rate / Resistance to pests / Resistance to harsh weather and poor soils / Type of wood obtained.</p> <p>b) A crop farmer gets double income / Allows maximum usage of land.</p>	<p>Both breathe through book lungs.</p> <p>Height of the tree.</p>	<p>Should be a similarity in the way they breathe.</p> <p>Should be factors that enable choice for a tree breed.</p>	<ul style="list-style-type: none"> <li>-Guide learners through agro-forestry.</li> <li>-More guidance about crop rotation.</li> </ul>

51	P.7	a) (i) A - fuse   (ii) C - switch b) To produce electricity / To provide electric current. c) Electrical energy changes to heat energy / Heat energy changes to light energy.	Switch Fuse To break the circuit at one's will.	Interchanged concepts. Should be role of dry cells. Should be energy change not form of energy.	-Should avoid interchanging concepts. -Guide learners through parts of an electric circuit. -Guide them through forms and changes of energy.
52	P.4	a) It leads to food contamination / Leads to lung diseases / Leads to jiggers.  b) Regular watering of the environment / Cementing the environment / Planting trees / Covering the floor with cow dung.	Makes the environment dirty.  Removing dust / Dusting the furniture.	Effects of living in a dusty environment.  Reducing dust in the environment.	-Guide candidates through a health survey. -Revise ways of living in a healthy environment and the steps involved therein.
53	P.5	(i) X – Budding (ii) Y – Cell division / binary fission b) Bacterium / Amoeba / Paramaecium c) Fermentation d) Reproduction helps organisms to multiply in number.	(i) spores (ii) budding Fungi Evaporation	Correct modes of reproduction. Organisms that reproduce by cell division. Correct name of process. It helps plants to grow. Increase in number.	-Guide learners through types of reproduction and the modes of reproduction as well.
54	P.3/P.4	a) Fast flowing water b) River blindness / Onchocerciasis c) By spraying black flies with insecticides / By regular washing of the eyes / Avoid sharing face towels.	Water bodies Night blindness By wearing a face mask.	Should be fast flowing water. Should be River blindness. Should be a control measure for the spread of river blindness.	-Guide learners through the different breeding places for most vectors. -Take them through the breeding places for the different vectors. -Guide them through vectors and the diseases they spread.
55	P.3	i) Turri's manure. ii) Harvests cereals. iii) Transplants seedlings. iv) Measures length of the garden.	i) Transplants seedlings ii) Digs rocky areas iii) Harvests cereals iv) Turri's manure	Correct uses of given garden tools.	Revise using question approach about the garden tools. You can also use the school garden for a practical approach.

# **THE SIPRO PRE - PLE SET II 2024**

## **SOCIAL STUDIES WITH RELIGIOUS EDUCATION**

**Time Allowed: 2 Hours 15 Minutes**

<b>Index No.</b>	<b>EMIS No.</b>						<b>Personal No.</b>	

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

EMIS No. \_\_\_\_\_

District: ID \_\_\_\_\_

**READ THE FOLLOWING INSTRUCTIONS  
CAREFULLY:**

1. This paper has two sections: A and B.
2. Section A has 40 questions (40 Marks).
3. Section B has 15 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated.

**"FOR EXAMINER'S USE ONLY"**

**For Examiner's Use Only:**

<b>Qn. No.</b>	<b>MARKS</b>	<b>INITIALS</b>
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
<b>Total</b>		

**Please turn over**



**THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA**

PUBLISHERS OF THE SIPRO TEACHERS GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS

**SEMAS**

**Simplified Learning Today**

## **SECTION A : 40 MARKS**

**Questions 1 to 40 carry one mark each.**

1. Give any **one** way swamps are important to people who make craft products.

---

2. Mention any **one** landlocked country that shares borders with East Africa.

---

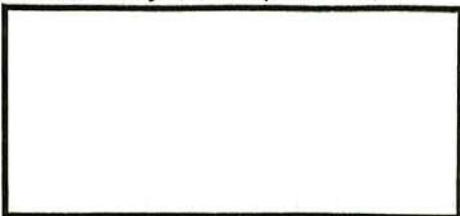
3. How do police officers help to reduce mob justice in the community?

---

4. Why did some African countries take long to attain independence from the colonialists?

---

5. Draw a symbol of a ferry in the space below.



6. Give **one** reason why P.7 candidates should listen to advice from their teachers and parents.

---

7. How can fresh fish at home be kept for days without going bad?

---

8. Why did explorers rename some physical features in Africa?

---

9. Give the meaning of the term national population census.

---

10. How can a war in Uganda's neighbouring country affect her economic development?

---




11. Give any **one** way a national constitution promotes good governance in a country.

---

12. State any **one** way in which the Commonwealth of Nations promotes the social welfare of her member citizens.

---

13. Mention any **one** recommendation of the 1900 Buganda Agreement.

---




14. How does South Africa benefit from having access to both the Indian Ocean and Atlantic Ocean?

---

15. Name the highest volcanic mountain in Tanzania.

---

16. State any one problem that resulted from the missionary activities in Africa.

---

17. Give any one way Ugandans show respect for the national symbol below.



---

18. What factor makes DRC to have different vegetation from that of Libya?

---

19. Write any one advantage members of an extended family have over those in a nuclear family.

---

20. State any one way the government can promote trade in rural areas of Uganda.



---

21. How did the organisation of Pan African Conferences help in the struggle for independence in Africa?

---

22. Why is it important for children to keep family secrets?

---

23. Give any one political reason for the construction of the Kenya-Uganda railway.

---

24. State any one way mobile phones have reduced on the number of people who go to banks.

---

25. Which explorer did John Speke and James Grant meet at Gondokoro in present day, South Sudan?

---

26. How does the mining of limestone promote the construction industry?



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

27. Which element shows what a map is all about?

---

28. How do the Guinea Ocean Currents affect the climate of Africa?

---

29. Why did the colonialists introduce hut and gun taxes in Uganda?

---

30. Give any one way the discovery of fire improved early man's way of life.

---

31. State any one challenge faced by the Electoral Commission during preparation for general elections.

---

32. How can the LCI vice chairperson fight cases of child abuse in their area?

---

33. Mention any one river in Uganda that flows northwards into Egypt.

---

34. Why should the East African Community encourage member states to unite and cooperate?

---

35. How does the construction of good roads in rural areas promote farming?

---

In each of the questions 36 to 40, answer EITHER the Christian OR Islamic question but not both. No marks shall be awarded to a candidate who attempts both alternatives in a particular number.

36. Either: Why did Cain murder his brother Abel?

---

Or : Why did Qabeel murder his brother Habeel?

---

37. Either: Name the lake where Jesus Christ walked on water.

---

Or : Name the mountain where Prophet Muhammad (PBUH) received the Qur'an.

---

38. Either: How do Christian religious leaders promote peace in the community?

---

Or : How do Muslim religious leaders promote peace in the community?

---



**39. Either:** Why do Christian teachings encourage men to have only one wife?

Or : Why do Islamic teachings encourage Muslim women to be submissive to their husbands?

**40. Either:** Who helped Jesus to carry the cross according to the Bible?

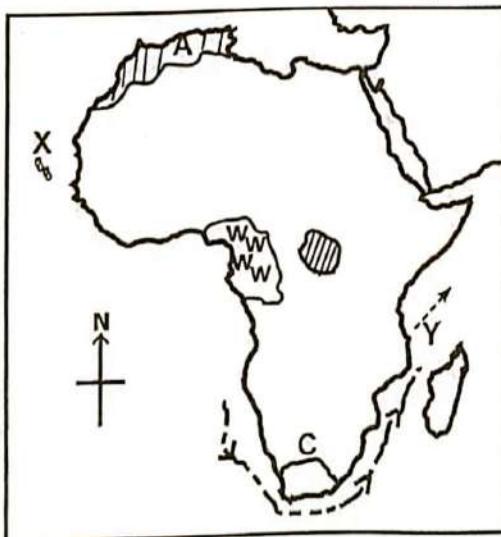
Or : Who built the kaaba?



#### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

**41.** Study the sketch map of Africa below and use it to answer the questions that follow.



(a) Name the islands marked X on the map.

(b) Mention one occupation of people in the climate area marked C and A.

(c) Give any one factor that makes it difficult to end civil wars in the area marked W.

(d) Which group of early Europeans used the route marked Y on the map first to visit Asia?



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

42. (a) Mention any one social service which is provided by doctors in our community.

(b) Give any two reasons why the government sometimes delays to pay civil servants.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Why should citizens care for social service centres?

43. (a) Mention any two human practices which can be used to control global warming.

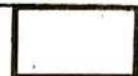
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

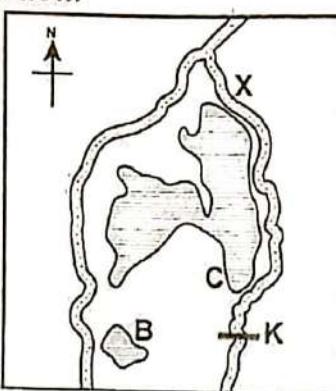
(b) How does NEMA conserve wetlands in Uganda?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



44. Study the sketch map of Gezira scheme below and use it to answer the questions that follow.



(a) Name the;

(i) irrigation extension marked B \_\_\_\_\_

(ii) dam marked K \_\_\_\_\_

(b) State any one way farmers on Gezira scheme marked C benefit from clean canals.

(c) Give any one challenge farmers on the scheme marked C face.

45. (a) Give any two sources of information about the people of East Africa.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

(b) How do people today in East Africa economically benefit from places where earlyman settled?

(c) How did the discovery of farming help earlyman to live a settled life?

46. (a) Name one mineral in the Albertine region which will lead to the construction of a pipeline.

(b) Why should good roads be built in areas where minerals are discovered?

(c) Give any two factors that may delay the government from developing some mining centres.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_



47. (a) State any two ways social media can be used to promote development in a country.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

(b) Give any two challenges faced when using internet as a means of communication.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

48. (a) Give any two factors that can make an area to have many job opportunities.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

(b) State any two ways in which people in urban areas benefit from those in rural areas.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

49. a) Which organ of the United Nations is made up of five permanent member countries?

(b) Give any two ways in which United Nations has tried to promote human rights in member countries.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_



© Sipro Educational Services Tel. 0414669050/ 0755-274911/0776-274911

P.7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING MATERIAL, ACTIVITY BOOKS, SEMAB, TEACHER'S GUIDES & PUPIL'S COMPANION

(c) How is New York City important in the operation of United Nations?

---

50. (a) Mention any **two** challenges enumerators faced during the 2024 National Population and Housing Census (NPHC).

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** ways the information collected during a national census helps the government.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

In each of the questions 51 to 55, answer EITHER the Christian OR Islamic question but not both. No marks shall be awarded to a candidate who attempts both alternatives in a particular number.

51. Either: (a) Mention any **two** sacraments a baptised child can receive in Christianity.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How do Christian children benefit from receiving sacraments?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

Or : (a) Mention any **two** pillars of Islam a Muslim child can practice.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How do Muslim children benefit from practising the pillars of Islam?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

52. Either: (a) Name the wife of Abraham who was the mother of Isaac.

---

(b) Why was Abraham faithful to God?

---

(c) Give any **two** moral lessons you learn from the story of Abraham.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

Or : (a) Name the wife of Prophet Ibrahim who was the mother of Ishaq.

(b) Why was Hajarah sent away from Ibrahim's home?

(c) Mention any two moral lessons you learn from the story of Yaqub and his twin brother.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



53. Either: (a) Give any two reasons why Jesus Christ was able to attract many followers.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How did the Pharisees and the teachers of the law react to Jesus' many followers and teachings?

(c) Name the person to whom the Roman soldiers took Jesus Christ after His arrest.

Or : (a) Give any two reasons why Prophet Muhammad (PBUH) was able to attract many followers.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) How did the Meccans react to Prophet Muhammad's new religion?

(c) Who escorted Prophet Muhammad (PBUH) to Taif?

54. Either: (a) Give any two causes of success among Christians today.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Which advice would you give to a friend who has failed examinations?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 SOCIAL STUDIES PRE - PLE SET II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES & PUPIL'S COMPANIONS.

Or : (a) Give any two causes of success among Muslims today.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Which advice would you give to a friend who has failed examinations?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

55. Either: Match the book in the Bible to the information about it correctly.

Holy book	Prophet who received it.
Genesis	Last book in the Bible.
Revelation	Has the creation story.
Malachi	Has the Ten Commandments.
Exodus	Last book in the Old Testament.

(i) Genesis \_\_\_\_\_

(ii) Revelation \_\_\_\_\_

(iii) Malachi \_\_\_\_\_

(iv) Exodus \_\_\_\_\_

Or : Match the Holy book in Islam to the Prophet who received it correctly.

Bible book	Information about it
Qur'an	Prophet Isa
Tauret	Prophet Muhammad (PBUH)
Zabur	Prophet Musa
Injir	Prophet Dauda

(i) Qur'ah \_\_\_\_\_

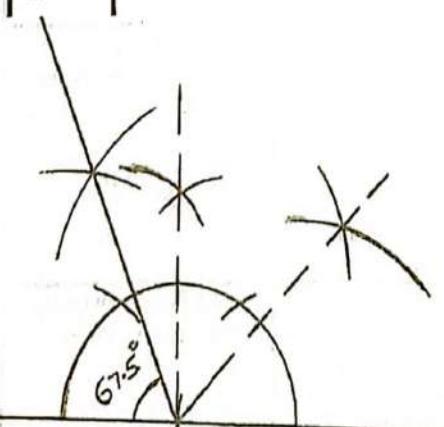
(ii) Tauret \_\_\_\_\_

(iii) Zabur \_\_\_\_\_

(iv) Injir \_\_\_\_\_



**THE SIPRO PRIMARY SEVEN MATHEMATICS PRE-PLE SET II MARKING GUIDE 2024.**

QN	LEVEL	SOLUTION	MRK	REASON	COMMENT																												
1	P.1	$  \begin{array}{r}  9\ 7 \\  -1\ 5 \\  \hline  8\ 2  \end{array}  $	B2	For the difference.	Operate and regroup correctly involving word statements.																												
2	P.6	$  \begin{array}{l}  5ab + 2ab - 3ab \\  7ab - 3ab \\  4ab  \end{array}  $	B2	For 4ab	Revisit collecting like terms.																												
3	P.5	$  \begin{array}{l}  B - A = \emptyset \\  n(B - A) = 0  \end{array}  $	B1 B1	For B-A For n(B-A)	Help the candidates to identify the regions on the venn diagram and differentiate.																												
4	P.6	$  \begin{array}{r}  CDX = CD \quad X \\  = 400 + 10 \\  = 410  \end{array}  $	B2	For 410	Revisit conversion of hindu Arabic to Roman numerals.																												
5	P.5	<table border="0"> <tr> <td>500ml packets</td> <td>LL = 1000ML</td> </tr> <tr> <td>25ml</td> <td>0.5L = <u>5</u>X1000ML</td> </tr> <tr> <td>20<u>500ml</u></td> <td>10</td> </tr> <tr> <td>125ml</td> <td>500ML</td> </tr> <tr> <td>20 packets of 25ml</td> <td></td> </tr> </table>	500ml packets	LL = 1000ML	25ml	0.5L = <u>5</u> X1000ML	20 <u>500ml</u>	10	125ml	500ML	20 packets of 25ml		M1 A1	For the method. For the answer.	Make a review on related areas but with different units.																		
500ml packets	LL = 1000ML																																
25ml	0.5L = <u>5</u> X1000ML																																
20 <u>500ml</u>	10																																
125ml	500ML																																
20 packets of 25ml																																	
6	P.7	$  \begin{array}{l}  \text{Days past} \\  19 - 1 = 18 \text{ days} \\  \text{Day - days = (finite 7)} \\  5 - 18 = (\text{finite 7}) \\  2 \text{rem} 4 \\  7 \overline{) 18} \\  5 - 4 = \underline{\quad} (\text{finite 7}) \\  1 \text{ (finite 7)} \\  \text{The weeding started on Monday.}  \end{array}  $	M1 A1	For the method. For the answer.	Expose candidates to application of integers in different versions. <b>Accept</b> <table border="1"> <tr> <td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td> </tr> <tr> <td>/</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td></td> </tr> <tr> <td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> </tr> <tr> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td></td> </tr> </table>	S	M	T	W	T	F	S	/	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16	17	18	19	
S	M	T	W	T	F	S																											
/	2	3	4	5	6																												
7	8	9	10	11	12	13																											
14	15	16	17	18	19																												
7	P.6	$  \begin{array}{r}  2 300 \\  2 150 \\  3 75 \\  5 25 \quad 300 = 2 \times 2 \times 3 \times 5 \times 5 \\  5 5 \\  1  \end{array}  $	M1 A1	For the method. For correct answer.	Make a review on prime factorization and assist the weak candidates.																												
8	P.7		B1 B1	For 135° For 67.5°	Emphasise correct labelling of angles.																												

9	P.5	Aminah 7 8 9 10 11 12 13 Aminah will be 13 years.	M1	For the method  For the correct answer.	Accept any other method leading to correct answer. Accept Difference $(18 - 12)$ years 6 years Aminah 7+6 13 years
10	P.5	$\begin{array}{r} 3 \ 2 \ 0 \\   \quad   \quad   \\ \text{fives} \\ \text{fives} \\ \text{five fives} \\ (3 \times 5) + (2 \times 5) + (0 \times 1) \\ 75 \quad + \quad 10 \quad + \quad 10 \\ \hline 85 \text{ ten} \end{array}$	M1	For the correct method	Help the candidates to operate bases and regroup where applicable.
11	P.6	$\begin{array}{l} 1g = 100\text{cg} \\ 2g = 2 \times 100\text{cg} \\ = 200\text{cg} \\ \underline{40} \times 100\% \\ 200 \\ \underline{40} \times 100\% \\ 200 \\ = 20\% \end{array}$	M1	For correct method.	Involve variety of units used in related questions.
12	P.6	$\begin{array}{l} m^\circ + 30^\circ = 180^\circ \\ m^\circ + 300^\circ - 300^\circ = 180^\circ - 30^\circ \\ m^\circ = 150^\circ \\ m^\circ = 150^\circ \\ 1^\circ \quad 1^\circ \\ m = 150 \end{array}$	M1	For the equation.	- Make a review on angles involving parallel lines. - Encourage completion of diagrams.
13	P.7	$\begin{array}{l} 3, 8, 4 - 483, 438 \\ \quad \rightarrow 843 \quad (834) \\ \quad \rightarrow 384, \quad (348) \\ \text{Smallest number is } 348 \\ \text{Biggest number is } 834 \end{array}$	B1	For 348	Revisit divisibility tests and help candidates on how they can be applied.
14	P.7	$\begin{array}{l} 2h - (3 - h) = 9 \\ 2h - 3 + h = 9 \\ 2h + h - 3 = 9 \\ 3h - 3 + 3 = 9 + 3 \\ 3h = 12 \\ \underline{3h} = \underline{12}^4 \\ 3 \quad 3 \\ h = 4 \end{array}$	M1	For the correct method used.	Expose candidates to variety of equations and practice.
15	P.5	$\begin{array}{l} \% \text{ profits} = p \times 100\% \\ \text{BP} \\ \text{BP} = \text{sh. } 18,000 \\ \text{sh. } 2,000 \\ \hline \text{sh. } 16,000 \end{array}$	M1	For the correct method	Make a review on finding B.P, S.P, loss profit etc.

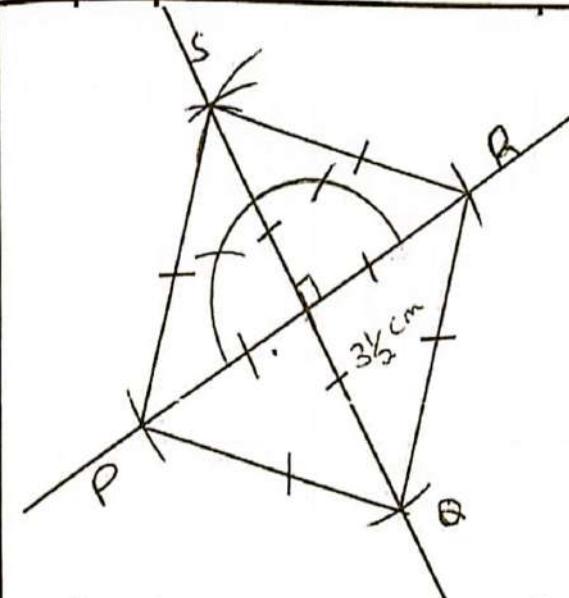
		$\frac{2000 \times 100\%}{16000}$ $= \frac{200}{16}$ $= 12.5$	A1	For the correct answer.	
16	P.7	Hours      min 7 : 10am - 6 : 40am <u>          </u> 30min 9 : 00am - 30 8: 30am The correct time is 8:30am	B1	For 30mins	Accept any other method leading to correct answer.
17	P.7		B1	For the correct co-ordinate.	Make a review on plotting and identifying the points on the graph.
18	P.6	$R = HT - LT$ $R = -5^{\circ}\text{C} - (-19^{\circ}\text{C})$ $R = -5^{\circ}\text{C} + 19^{\circ}\text{C}$ $R = 14^{\circ}\text{C}$ The rise in temperature was $+14^{\circ}\text{C}$	M1 A1	For the method. For the correct answer	Revisit simplification of integers.
19	P.7	$\frac{3}{4} \div 4$ $= \frac{3}{4} \times \frac{1}{4}$ $= \frac{3}{16}$	M1 A1	For the method. For the correct answer	Make a review on operation of fractions.
20	P.7	$6 \times 40\text{kg} = 240\text{kg}$ $40\text{kg} + 20\text{kg} = 60\text{kg}$ $240\text{kg}$ $- 60\text{kg}$ $\hline 180\text{kg}$	M1 A1	For the correct method For the answer.	Expose learners to a variety of such related questions.

SECTION B

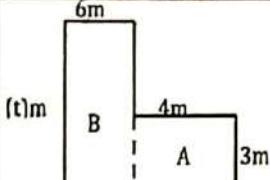
SECTION B																							
21a)	P.7	<p style="text-align: center;"><math>n(W) = 30</math>      <math>n(K) = 29</math></p> <p style="text-align: center;">17                  13                  <math>X + 12</math></p> <p style="text-align: center;"><math>\frac{2310}{- 13}</math></p> <p style="text-align: center;"><math>\underline{17}</math></p>	B1 B1 B1	For correct entry 13.  For entry 17  For entry x.	Encourage candidates to always read the question at least 3 times for them to understand correctly.																		
b)		$x + 12 + 13 = 29$ $x + 25 - 25 = 29 - 25$ $x = 4$	M1 A1	For the correct equation formed. For correct answer.																			
c)		$17 + x$ $17 + 4 = 21$ pupils	B1	For correct answer.																			
22 a)	P.6	<b>Peas</b> $\frac{2}{2} \times \text{sh. } 4000$ $\frac{2000}{5} \times \text{sh. } 4000$ $\frac{2}{1} \times \text{sh. } 10,000$ <b>Sugar</b> $\text{Sh. } 13,000 \div \frac{3}{4}$ $\text{Sh. } 13,000 \div \frac{13}{4}$ $\text{Sh. } 13,000 \times \frac{4}{13}$ $\text{Sh. } 4,000$ <b>Mushrooms</b> $\text{1,500} \times \text{sh. } 2,000$ $1000 = \text{Sh. } 3,000$ <b>Total bill</b> $\text{sh. } 10,000$ $\text{sh. } 6,000$ $\text{sh. } 13,000$ $+ \text{sh. } 3,000$ $\underline{\text{sh. } 32,000}$	B1 B1 B1 B1 B1 B1 B1 B1 B1 B1	For sh. 10,000  For 3 litres  For sh. 4,000  For sh. 3,000  For the total bill.	Help candidates on how to fill the table and encourage them to show the working.																		
b)		$\text{sh. } 10,000$ $- \text{sh. } 32,000$ $\underline{\text{sh. } 8,000}$	B1	For the correct answer.																			
23a)	P.6	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>2</td><td>40</td><td>50</td></tr> <tr><td>2</td><td>20</td><td>25</td></tr> <tr><td>2</td><td>10</td><td>25</td></tr> <tr><td>5</td><td>5</td><td>25</td></tr> <tr><td>5</td><td>1</td><td>5</td></tr> <tr><td></td><td>1</td><td>1</td></tr> </table>	2	40	50	2	20	25	2	10	25	5	5	25	5	1	5		1	1	M1	For the method.	Make a review on prime factorization of numbers and expose candidates to more
2	40	50																					
2	20	25																					
2	10	25																					
5	5	25																					
5	1	5																					
	1	1																					

	(2x2x2)x5x5 8 x 25 200 minutes $\frac{200}{60}$ hours 60 <sub>3</sub> $\frac{3}{3}$ hours	B1	For 200 minutes For $\frac{3}{3}$ hours	other application questions.
b)	$1 \times 60^{20}$ 3 <sub>1</sub> 20 munites 6 00am + 3 20 9 20am The bus will leave together at 9:20a.m	M1	For addition For the answer.	
24a)	P.7 A to B $D = S \times T$ $= 15\text{km} \times 2\text{hours}$ 1h $= 30\text{km}$ Resting time 1hour B to C $D = 20\text{km}$ $T = \frac{D}{S}$ $= \frac{20}{82}\text{km}$ $= 2\frac{1}{2}\text{hours}$	B1 B1	For 30km For $2\frac{1}{2}$ hours	Encourage candidates to find the distance, time and speed if they are not given.

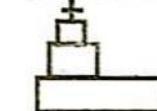
25	P.5	$\text{Volume} = \pi r^2 h$ $= \frac{22}{7} \times 14\text{cm} \times 14\text{cm} \times 20\text{cm}$ $22 \times 144\text{cm} \times (14\text{cm} \times 20\text{cm})$ $44\text{cm} \times 280\text{cm}^2$ $12320\text{cm}^3$ $12320\text{cm}^3$ $- 3320\text{cm}^3$ $9000\text{cm}^3$ $\text{No of litres} = \frac{\text{volume}}{1000\text{cm}^3}$ $(9000 \text{ cm}^3) \text{ Litres}$ $1000\text{cm}^3$ $9 \text{ litres}$	M <sub>1</sub>	For the method	Revisit volume of all solid figures and work out the capacities.
		B <sub>1</sub>	For 12320cm <sup>3</sup>		
		B <sub>1</sub>	For 9000cm <sup>3</sup>		
		A <sub>1</sub>	For 9 litres		
26a)	P.7	$3m + 7 = 40$ $4$ $3m + 7 - 7 = 40 - 7$ $4$ $3m = 33$ $4 \quad 1$ $(3m \times 4) = 33 \times 4$ $4 \quad 1$ $3m = 33 \times 4$ $3 \quad 3$ $m = 44$	M <sub>1</sub>	For collecting like terms.	Make a review on equations and involve solving inequalities. Accept other correct methods.
b)		A <sub>1</sub>	For m = 44		
		M <sub>1</sub>	For collecting like terms.	Accept other correct approaches.	
		B <sub>1</sub>	For x > -1		
		B <sub>1</sub>	For the solution set.		
27a)	P.7		S <sub>1</sub>	For the sketch.	Make a review on construction of all quadrilateral polygons.
		C <sub>1</sub>	For 90°		
		C <sub>1</sub>	For the arcs.		
		J <sub>1</sub>	For joining.		



	b)	$QR = \pm 4.9\text{cm}$	B <sub>1</sub>	For the length.	
28a)	P.7	$\text{Average} = \frac{\text{sum of data}}{\text{Number of data}}$ $75 = \frac{60 + 2p - 18 + 81 + p}{4}$ $75 = \frac{60 + 81 - 18 + 2p + p}{4}$ $4 \times 75 = \frac{(123 + 3p) \times 4}{4}$ $300 = 123 + 3p$ $300 - 123 = 123 - 123 + 3p$ $\frac{177}{3} = \frac{3p}{3}$ $5p = p$ $p = 59$	B <sub>1</sub>  M <sub>1</sub>  A <sub>1</sub>	For the substitution  For the correct method  For the correct answer	Follow through and expose candidates to application of mean and other statistical terms. Accept $P+2p-18+60+81=15\times 4$ $3p-18+141=75\times 4$ $3p+123=300$ $3p+123-123=300+123-123$ $3p=\frac{177}{3}$ $3p=59$ $p=59$
	b)	$(2p - 18)$ $(2 \times 59) - 18 = 100$ $R = H : L$ $100 : 59$ $R = 41$	B <sub>1</sub>  B <sub>1</sub>	For 142  For 41	
29a)	P.6	$2(k + 26^\circ) + 54^\circ + 26^\circ = 180^\circ$ $2k + 52^\circ + 80^\circ = 180^\circ$ $2k + 132^\circ = 180^\circ$ $2k + 132^\circ - 132^\circ = 180^\circ - 132^\circ$ $2k = 48^\circ$ $2k = 24^\circ$ $k = 24^\circ$	B <sub>1</sub>  B <sub>1</sub>  A <sub>1</sub>	For $2(k+26^\circ)$  For the equation.  For $k = 24^\circ$	Encourage candidates to indicate and make use of the diagram by writing in it.
	b)	$g + k + 26^\circ + 54^\circ = 180^\circ$ $g + 24^\circ + 80^\circ = 180^\circ$ $g + 104^\circ = 180^\circ$ $g + 104^\circ - 104^\circ = 180^\circ - 104^\circ$ $g = 76^\circ$	M <sub>1</sub>  A <sub>1</sub>	For the equation.  For the correct answer.	

30a)	P.7	$100\% - 10\% = 90\%$ $\text{sh. } 81,000 \div 90\%$ $\text{sh. } 81,000 \div \underline{90}$ $100$ $\frac{9000}{Sh. } 81,000 \times \underline{100}$ $90$ $\text{Sh. } 90,000$	M1	For the correct method	Accept other correct methods.
		$100\% + 5\% = 105\%$ $\underline{105} \times \text{sh. } 90,000$ $100$ $\text{Sh. } 94,500$	A1	For the correct answer.	
31a)	P.7	 <p>Area of A + Area of B  <math>(L \times W) + (L \times W) = \text{area}</math>  <math>(4m \times 3m) + (6m \times t m) = 60m^2</math>  <math>12m^2 + 6m^2 t = 60m^2</math>  <math>12m^2 - 12m^2 + 6m^2 t = (60m^2 - 12m^2)</math>  <math>6t = 48m^2</math>  <math>\underline{6m^2 t} = \underline{48m^2}</math>  <math>6m^2 \quad 6m^2</math>  <math>t = 8</math></p>	B1	For the correct method used.	Follow through the candidates work and practical related questions.
		<p>M1</p> <p>For collecting like terms.</p> <p>A1</p> <p>For the correct answer.</p>			
b)		$\text{Perimeter} = (10m + 10m) + (8m + 8m)$ $= 20m + 16m$ $= 36m$	M1	For the correct method.	Make a review on time table in both am and p.m.
32 a)	P.7	$3: 15\text{pm}$ $\underline{+ 12: 00}$ $\underline{\underline{15 \text{ 15hour}}}$	B2	For the correct answer.	
b)		$4 : 40 \text{ p.m}$ time taken $- 0 : 30$ $\underline{\underline{4 : 10 \text{ p.m}}}$ $- 4:10\text{p.m}$ $\underline{\underline{2 \text{ hours}}}$	M1	For 4:10p.m	
c)		$6 : 25\text{p.m}$ $- 6 : 10 \text{ p.m}$ $\underline{\underline{0 : 15 \text{ minutes}}}$ $D = S \times T$ $D = 640 \text{ km} \times \frac{1}{4} \text{ h}$ $D = (\underline{640}) \text{ km}$ $4$ $D = 160 \text{ km}$	M1	For the correct method.	
			A1	For the answer	

# THE SIPRO PRIMARY SEVEN SOCIAL STUDIES WITH R.E PRE – PLE SET II - MARKING GUIDE 2024

NO	CLASS LEVEL	CORRECT RESPONSE	WRONG ANSWER	MARKING POINT	TECHNICAL ADVICE
1	P.3	Swamps are sources of clay, papyrus, palm leaves/They are sources of raw materials for crafts.	Swamps are sources of craft products.	Importance of swamps to people who make craft materials.	Revise with learners examples of craft materials and their importance.
2	P.6	South Sudan, Ethiopia, Malawi, Zambia	Rwanda, Burundi, DRC	Landlocked countries neighbouring East Africa.	- Help learners to understand that Rwanda and Burundi are also part of East Africa. - Learners should also know that DRC is not landlocked.
3	P.4	By arresting suspects/By using tear gas/By curbing down riots/By detaining suspects.	It is where cases are reported.	How police officers can reduce mob justice in an area.	Guide learners to know the difference and importance of social service centres and social service providers.
4	P.7	Due to disunity of Africans/Due to weaker weapons of Africans/Due to arrest of nationalists /Due to murder and exile of nationalists.	They were smaller than colonial masters.	Why some African countries delayed to get independence.	Explain to learners clearly the challenges which were faced in the struggle for independence. Also discuss the causes and effects of mob justice.
5	P.3	 Or 		Drawing a symbol of a ferry.	- Advise learners to always use the Atlas for accurate map symbols especially Moran Atlas. Learners should draw symbols using pencils.
6	P.7	To stay in school/To avoid poor performance/To promote peace/To promote friendship/To promote discipline.	To avoid school dropouts.	Importance of obeying teachers and parents.	Revise with learners the ways of promoting peace at home.
7	P.6	By smoking/By salting/By sun-drying /By refrigerating/icing.	By covering it.	Ways of preserving fish at home.	Teach learners the modern and traditional ways of preserving fish.
8	P.5	To honour/recognize their leaders back home/To show that they have reached them /For prestige/For remembrance.	The old names were not good.	Why explorers renamed physical features in Africa.	Help learners to know the effects of explorers in Africa both positive and negative.
9	P.5	A national population census is the official general counting of people in a country.	A national population census is the official counting of people in an area.	Meaning of a national population census.	Revise with learners population terms and current affairs plus government policies.
10	P.7	Reduces trade between Uganda and that country/Reduces free movement of people, goods and services between Uganda and that country.	Leads to death of people.	How a war in Uganda's neighbour economically affects Uganda.	Revise with learners the benefits of regional integration.
11	P.5	A national constitution guides leaders/It protects human rights/It provides peaceful ways of changing leadership/It provides peaceful means of solving conflicts.	A national constitution leads a country.	How a national constitution promotes good governance.	Revise with learners the importance of different national symbols.

12	P.7	Promotes democracy/Promotes education services/Promotes exchange of expatriates in different fields/Promotes conservation of environment/Prepares Commonwealth games.	Sends peacekeeping forces to member countries.	How Commonwealth of Nations promotes the social welfare of her citizens.	Revise with candidates the importance of major world organisations.
13	P.5	The Kabaka was addressed as His Highness/Lukiiko was to be expanded to 89 members/Kabaka was to be assisted by three senior officials/Land was to be divided into Mafio and crown land.	Land/taxation/governance	The recommendations of the 1900 Buganda Agreement.	Help learners to understand the reasons for signing agreements with colonials and their terms using the right references. Learners should also know the effects of these agreements.
14	P.7	South Africa easily imports and exports her goods/South Africa imports and exports cheaply/South Africa attracts many tourists who bring income/pay less transport on imports and exports/Handles more goods at once	South Africa is not landlocked.	How South Africa benefits from having access to Indian and Atlantic Ocean.	Revise with learners the location of different case study countries and their economic impact.
15	P.6	Mount Kilimanjaro	Mount Usambilla	The highest volcanic mountain in Tanzania	Guide learners to locate Mt. Kilimanjaro on the map and other volcanic mountains.
16	P.7	Led to religious wars and competition for converts/Led to division of people.	Led to colonization of Africa and change in African culture.	How the coming of missionaries in different groups was a challenge.	Revise with learners the positive and negative effects of the coming of different foreigners.
17	P.5	By not killing it/By protecting its habitats (swamps).	By standing upright/By feeding it.	Ways of respecting the Uganda national emblem.	Revise with learners the different ways of respecting national symbols.
18	P.7	Due to difference in climate (rainfall and temperatures)/Due to difference in nature of the soil.	Climate/soil fertility/ vegetation	Why DRC has different vegetation from Libya.	Revise with learners the factors that influence different vegetation zones in Africa.
19	P.2	Members in an extended family have more social security than those in a nuclear family./Socialisation/No boredom.	There is more labour in an extended family than in a nuclear family.	Advantage of an extended family over a nuclear family. -	Revise with learners the advantages and disadvantages of different types of families.
20	P.4	By building good roads in rural areas/By providing security in rural areas/By extending electricity to rural areas/By promoting industrialization in rural areas.	By charging taxes on traders.	To state way Government can promote trade in rural areas.	Revise with learners ways government improves on people's welfare. Also discuss the concept of rural – urban migration in details.
21	P.7	It united nationalists/Nationalists learnt methods of demanding for independence/Gave nationalists courage.	It controlled rebellions.	The importance of Pan – African Conferences in the struggle for Independence.	Revise with learners the different contributions of nationalists and Pan – Africans and their migration in details.
22	P.1	Promotes security/peace/love/trust/prestige/respect.	Promotes discipline.	Why children should keep family secrets.	Revise with learners different ways of maintaining security at home.
23	P.6	To easily transport administrators/ For easy movement of colonials.	To link Uganda to the coast and transport raw materials.	Political reason for constructing Kenya – Uganda railway.	Guide learners to know the economic, political and social reasons for constructing the Uganda railway.
24	P.4	People can send and receive money using mobile phones/Mobile phones can be used	People no longer keep money in banks.	How mobile phones have reduced on people going to banks.	Revise the different ways mobile phones have eased on people's way of life.

25	P.5 Sir Samuel Baker	to keep money/People can withdraw money kept in banks using phones.	HM Stanley/David Livingstone /Dr. Mungo Park	Specific to the stated response.	Help learners to understand the routes showing movement of different explorers in Africa.
26	P.6 It is used to make cement and lime used in the construction industry.	It is a source of income/It is used for tourism.	How limestone mining promotes construction industry.	Revise with learners the products from different minerals and their importance.	
27	P.3 Title	Key, scale, compass direction, frame	Element which shows what a map is all about.	Guide learners to know the importance of different elements of a map and their importance.	
28	P.7 Guinea ocean currents bring rainfall/ Bring warm conditions.	Brings deserts/dry conditions.	How Guinea ocean currents influence climate of Africa.	Teach learners how different ocean currents and winds influence Africa's climate.	
29	P.5 To get income to provide social services/To encourage natives to grow cash crops/To get cheap labour.	To reduce on huts.	Why colonialists charged natives hut and gun tax.	Revise the different taxes colonialis introduced and reasons for taxes they introduced.	
30	P.6 Fire provided light in caves/Fire provided warmth in caves/Fire provided protection against animals/ Fire enabled earlyman to live in caves/Fire was used for roasting meat.	Fire was used for cooking food:	How fire improved earlyman's way of life.	Revise with candidates the different tools and items of earlyman and how they improve his life.	
31	P.5 Rigging of votes/Ballot stuffing/ Poor transport network/ Misdirecting voters/ Deleting of voters/ Fighting of supporters of candidates.	Difficulty in counting votes.	Problem faced by the electoral commission.	Revise the duties of the electoral commission and challenges faced.	
32	P.3 By reporting people who carry out child abuse to police/By sensitizing people.	By punishing people who abuse children's rights.	How LC Vice Chairperson fights child abuse.	Revise ways of controlling child abuse and people who control child abuse.	
33	P.5 River Nile	River Achevi.	River in Uganda that flows Northwards.	Help the candidates to know the reason why River Nile flows Northwards.	
34	P.6 To promote trade/To promote peace and security/To promote free movement of people, goods and services.	To increase in size.	Why EA/C encourages member states to unite.	Revise benefits of common markets to member countries.	
35	P.4 It promotes easy transportation of farm produce/Creating market for produce.	I promotes development.	How good roads in rural areas promote farming.	Revise with learners the importance of different social services.	
36	P.4 Either Or	Cain was jealous of his brother Abel. Qabil was jealous of his brother Habil.	God blessed Abel.	Why Cain murdered his brother Abel.	Revise people who annoyed God in the Bible and how God punished them.
37	P.4 Either Or	Lord in Galilee	Allah blessed Habeel.	Lake where Jesus walked on water.	Revise important religious places and events that took place there.
		Mt. Neor	Mt. Arafat	Mountain where Prophet Muhammad (PBUH) received the Qur'an.	



		/They are sources of jobs.	purpose.	sites.	site sites.
46.	P.5	c) Early man did not need to move from place to place looking for food. a) Crude oil/Natural gas b) To easily transport minerals to factories/ To easily transport mineral products/To attract investors. c) Shortage of funds/Low technology /Due to shortage of skilled labour.	Early man started growing crops. Gold/copper For tourism Lack of labour.	Liquid or gas in Albertine Region. Why good roads are built in areas where minerals are discovered. Factors that may delay government from moving.	- Revise with learners mining areas, major mining areas and importance of mining to the economy of East Africa.  - Guide learners to understand the different modern and traditional means of communication, their advantages and disadvantages.
47.	P.6	a) For communication/For advertisement/ For educational research/Mobilising masses. b) It is expensive/There is loss of network sometimes/It requires modern gadgets to operate/Some areas don't have electricity/ Illiteracy.	Mobile phones/internet/ television/newspapers. They are slow.	Social media channels used by people in Uganda. Disadvantages of internet as a means of communication.	- Clearly explain to learners through group discussions the way people in rural areas depend on those in urban areas and vice versa.
48.	P.4	a) Presence of many social service centres/ Improved transport network/ Presence of many industries/factories/Improved security Agriculture/Mining / Market centres/Tourism. b) They get food from those in rural areas/ They get labour/workers/ They get firewood/ They get building materials/They trade with them (market).	Having a high/low population/ Having many jobs. They get cheap labour.	To state the causes of many job opportunities in an area. To state ways people in urban areas benefit from those rural areas.	- Guide learners to understand the major world organisations, their organs, headquarters, functions, similarities and differences.
49.	P.7	a) Security council.  b) By trying leaders who violate human rights/ By observing and monitoring national elections/By putting sanctions on countries that violate human rights/By outlining and encouraging countries to respect human rights. c) New York City has the headquarters of United Nations.	Peace and security council  By governing the member countries.	To name the organ of UN which has five permanent member countries. To state ways in which UN promotes human rights.	- Help learners to understand the reasons for organizing the national population census, other government programmes, their benefits and challenges faced when implementing them.
50.	P.5	a) Bad weather/Delayed and underpayment /theft/attacks/bad roads/negative attitude among the people/Loss of internet. b) It helps in planning/It helps in providing social services/It helps in demarcating constituencies/It helps in determining the level of illiteracy, unemployment and poverty.	New York is where UN is found. No payment/Lack of modern gadgets.	To state ways how New York City is important in the operation of UN. To state challenges enumerators faced during 2024 National population census in Uganda.	- Help learners to understand the reasons for organizing the national population census, other government programmes, their benefits and challenges faced when implementing them.
51.	P.6 Either	a) Holy communion/Holy Eucharist/ Anointing of the sick/Penance b) They strengthen their faith/They join God's family/Brings them closer to Jesus/ God/Forgiveness/Spiritual growth/Union with Christ.	Baptism/Holy matrimony/ Holy Orders.	To state sacraments a baptized child can get in Christianity. To state the importance of receiving sacraments to children.	- Revise with candidates sacraments, their examples, symbols and importance.

	<b>Or</b>	a) shah : lat/zakat/salat/saum b) They get blessings/They strengthen their faith/The get protection and forgiveness from Allah.	Believe in angels/Believe in prophets. They get money.	Pillars of Islam a Muslim child can practise. - To state pillar's Muslim children can practice. - To state the importance of observing pillars to Muslims.	- Revise with learners the pillars of Islam and their importance.
52.	P.5 Either	a) Sarah  b) He had a covenant with God (Gen 15:17)/ He wanted to get blessings from God/ Trusted in God's promises/He was grateful for God's protection/He feared God.  c) To be obedient/To be faithful/To be honest /To be patient.	Rebecca  He had strong faith in God.	Reason why Abraham was faithful.  Lessons drawn from Abraham's story.  The mother of Isaac.	- Talk about people who had strong faith in God.  Guide candidates to read the story of Abraham.  Guide learners to read the stories of Moses, Gideon, Ruth, etc from the Bible/Qur'an.
	<b>Or</b>	a) Sarah  b) It was a command from Allah/She despised Sarah.  c) To be obedient/To be faithful/To be honest/ To be patient.	Hajara  She was not beautiful.	Reason why Prophet Ibrahim sent Hajara away from his home.  Lessons from the story of Ibrahim.	- Guide learners to read the Bible during C.R.E lessons and to attend church or Juma services on days of worship.
53.	P.4 Either	a) He performed miracles (accept specific miracles)/He had powers from God/He had support from the Holy Spirit/They wanted healing and food.  b) They rejected Him/opposed Him/ Fought Him/Tortured His followers.  c) Anas	He was loved/They knew He was God.  They were jealous.  Caiphas	Why Jesus attracted many followers.  Annas later sent him to Calphas.	- Guide learners to read the Bible during C.R.E lessons and to attend church or Juma services on days of worship.
	<b>Or</b>	a) He performed miracles (accept specific miracles)/They were jealous.  b) He preached against their idols.  c) Zaid		This was why he was arrested.	- Help the candidates to know the reason why Prophet Muhammad (PBUH) went to Taif.
54.	P.6 Either/ Or	a) Luck/Hope/Good family background/ Hard work/obedience/ Making good decisions/ honesty/ faithfulness  b) To repeat/To revise a lot/ To consult teachers/To be strong/To read harder.	Witchcraft/stealing/corruption  Causes of success.	A person who escorted Prophet Muhammad (PBUH) to Taif.  Advice you can give a friend who has failed an examination.	- Encourage learners to state positive ways of getting success other than the negative ways.  Encourage learners to use real life experiences in answering some questions.
55.	P.4 Either	(i) Genesis – has the creation story (ii) Revelation – last book in the Old Testament (iii) Malachi – last book in the New Testament (iv) Exodus – has the Ten Commandments	To drop out of school/To sit home.  Any wrong order other than the one given here in the guide.	To match correctly books to their messages.	- Encourage learners to match correctly by recopying correct answers without deviations.  Categories, examples of Holy books and their main messages should be revised.
	<b>Or</b>	(i) Qur'an – Prophet Muhammad (PBUH) (ii) Taurat – Prophet Musa (iii) Zubur – Prophet Dauda (iv) Inji – Prophet Isa			

**2020**

**SECTION A**

$$\begin{array}{r} 473 \\ + 312 \\ \hline 785 \end{array}$$

Alternatively

$$\begin{aligned} 473 &= 400 + 70 + 3 \\ + 312 &= 300 + 10 + 2 \\ &\hline 700 + 80 + 5 \\ = 700 & \\ 80 & \\ \hline 5 \\ 785 & \end{aligned}$$

2.  $27,040$  = Twenty - seven thousand forty

Alternatively

Thousands			Units		
H	T	O	H	T	O
2	7	0	4	0	0
Twenty seven thousand			Forty		

Twenty - seven thousand forty

3. How to obtain triangular numbers

1 <sup>st</sup>	1
2 <sup>nd</sup>	$1+2=3$
3 <sup>rd</sup>	$1+2+3=6$
4 <sup>th</sup>	$1+2+3+4=10$

So from given numbers 4, 5, 6, 7, 8, 9, 10

Triangular numbers are

4, 5, 6, 7, 8, 9, 10

Alternatively: Using patterns

Order	pattern	Triangular number
1 <sup>st</sup>	•	= 1
2 <sup>nd</sup>	• •	= 3
3 <sup>rd</sup>	• • •	= 6
4 <sup>th</sup>	• • • •	= 10

Alternatively: Using formula

$$\text{Triangular numbers} = \frac{n(n+1)}{2}$$

1 <sup>st</sup>	$\frac{1(1+1)}{2} = \frac{2}{2} = 1$
2 <sup>nd</sup>	$\frac{2(2+1)}{2} = \frac{2 \times 3}{2} = \frac{6}{2} = 3$
3 <sup>rd</sup>	$\frac{3(3+1)}{2} = \frac{3 \times 4}{2} = \frac{12}{2} = 6$
4 <sup>th</sup>	$\frac{4(4+1)}{2} = \frac{4 \times 5}{2} = \frac{20}{2} = 10$

4 Number of sub sets =  $2^n$ , where  $n$  = number of elements.

$$2^1 = 4$$

$$2^2 = 2^2$$

$$n = 2$$

$$\therefore n(Q) = 2$$

Alternatively

$$Q = \{m, k\}$$

$$n(Q) = 2$$

5. 5834 in standard form

10	5834
10	583.4
10	58.34
	5.834

$$\therefore 5834 = 5.834 \times 10^3$$

Alternatively

$$\begin{array}{r} 5 \sqrt{834} \\ \quad 5 \\ \hline 34 \end{array} = 5.834 \times 10^3$$

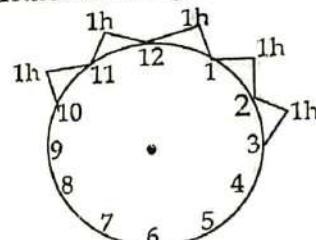
6. There are several methods we could use here,

Method 1: Using direct counting

10 : 00 pm	1 hour
11 : 00 pm	1 hour
12 : 00 mid-night	1 hour
1 : 00 am	1 hour
2 : 00 am	1 hour
3 : 00 am	1 hour

Hence it arrived at 3 : 00 am

Method 2: Using the clock



Hence it arrived at 3 : 00 am

Method 3: using departure and duration

Arrival time = departure time + duration

$$10:00$$

$$= + 5:00$$

$$15:00 \text{ hrs}$$

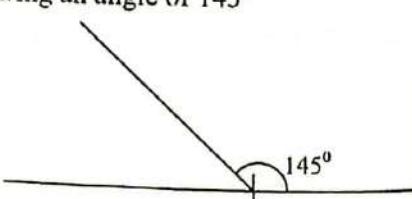
$$15:00$$

$$= - 12:00$$

$$3:00 \text{ am}$$

Hence it arrived at 3 : 00 am

7. Drawing an angle of  $145^\circ$



$$8. \frac{n!}{n-r} = \frac{5 \times 3}{3-2}$$

$$\begin{aligned} \frac{15}{5} &= \frac{15}{7} \\ &\approx 3 \\ 1 \text{ kg} &= 1000 \text{ g} \\ 9.85 \text{ g} &= x \\ \text{By cross multiplication,} \\ x &= 9.85 \times 1000 \text{ g} \\ x &= 9850 \text{ g} \\ \text{Hence } 9.85 \text{ kg} &= 9850 \text{ g} \\ \text{Total number of pens} &= 5 + 6 = 11 \\ \text{Probability that a pen picked is blue} &= \frac{5}{11} \end{aligned}$$

ii)  $3y = 5(\text{finite } 7)$   
 $3y = 5 + 7 (\text{finite } 7)$   
 $3y = 12(\text{finite})$

$$\frac{3y}{3} = \frac{12}{3} (\text{finite } 7)$$

$$y = 4(\text{finite } 7)$$

ii) LCM of 18 and 30

2	18	30
3	9	15
3	3	5
5	1	5
1	1	

$$\therefore \text{LCM} = 2 \times 3 \times 3 \times 5 = 90$$

$$\text{iii). } 9.8 \div 0.07 = \frac{98}{10} \div \frac{7}{100}$$

$$= \frac{98}{10} \times \frac{100}{7}$$

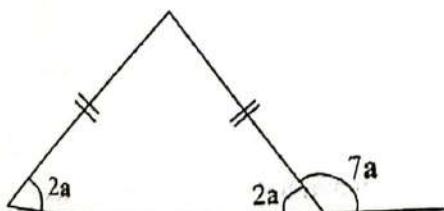
$$= 14 \times 10$$

$$= 140$$

$$\text{iv). Buying price} = \text{selling price} - \text{Profit} \\ = 70,000 - 12,000 \\ = \text{Shs. } 58,000$$

$$\text{Buying price per each} = \frac{82,000}{2} \\ = \text{Shs. } 29,000$$

v). Finding a



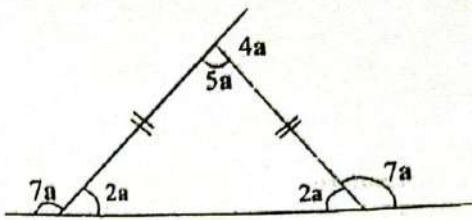
$$2a + 7a = 180^\circ$$

$$9a = 180^\circ$$

$$\frac{9a}{9} = \frac{180^\circ}{9}$$

$$a = 20^\circ$$

Alternatively



$$4a + 5a + 7a = 360^\circ$$

$$18a = 360^\circ$$

$$\frac{18a}{18} = \frac{360^\circ}{18}$$

$$a = 20^\circ$$

### 16. Method 1

Let number of female workers = x

$$30 : x = 2 : 3$$

$$\frac{30}{x} = \frac{2}{3}$$

By cross multiplication,

$$2x = 30 \times 3$$

$$2x = 90$$

$$\frac{2x}{2} = \frac{90}{2}$$

$$x = 45$$

$$\text{Total number of workers} = 30 + 45 = 75$$

### Method 2

Let the total number of workers = y

$$\text{Total ratio value} = 2 + 3 = 5$$

$$\frac{2}{5} \times y = 30$$

$$\frac{2y}{5} = 30 \times 5$$

$$\frac{2y}{5} \times \frac{5}{2} = 30 \times 5$$

$$2y = 150$$

$$\frac{2y}{2} = \frac{150}{2}$$

$$y = 75$$

∴ the total number of workers is 75

### Method 3:

2 parts rep 30

$$1 \text{ part rep } \frac{30}{2} = 15$$

5 parts rep  $15 \times 5 = 75$  workers

$$17. \quad \frac{5}{6}k - 7 = 3$$

$$\frac{5}{6}k - 7 + 7 = 3 + 7$$

$$\frac{5}{6}k = 10$$

SECTION A

$$\begin{array}{r} 534 \\ 123 \\ \hline 411 \end{array}$$

$$XC = 90$$

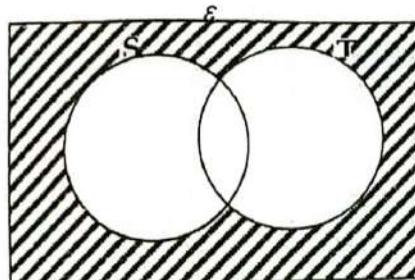
$$VII = 7$$

$$XCVII = 90 + 7$$

$$XCVII = 97$$

$$\begin{aligned} 3p + p - 2p \\ 4p - 2p = 2p \end{aligned}$$

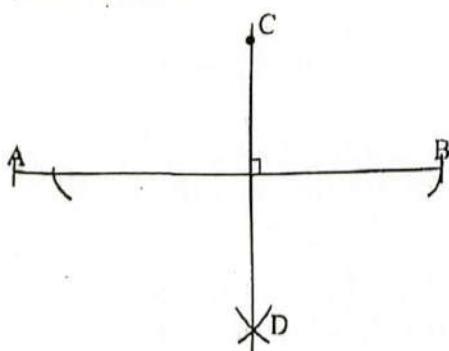
The region represented by  $(S \cup T)'$  is the region outside the circles but inside the universal



To round off 53.86 to the nearest tenth means to round the numbers so that you only have one digit in the fractional part. Hence;

$$53.86 = 53.9$$

- Place the compass on the point (point C).
- Draw an arc across the line on each side of the given point.
- From each arc on the line, draw another arc on the opposite side of the line from the given point (C)
- Use your ruler to join the given point (C) to the point where the arcs intersect (D) as shown below.



$$1\text{kg} = 1000\text{g}$$

$$1\text{g} = \frac{1}{1000} \text{ kg}$$

$$250\text{grammes} = \frac{1}{1000} \times 250 \text{ kg}$$

$$250\text{grammes} = \frac{250}{1000} = 0.25 \text{ kg}$$

8. A symbol for a girl = 26 girls

A symbol for a boy = 20 boys

Two symbols for girls + one symbol for a boy =  $(2 \times 26) + (1 \times 20)$

$$= 52 + 20$$

$$= 72$$

9.  $3 + m = 2(\text{finite } 5)$

$$m + 3 - 3 = 2 - 3(\text{finite } 5)$$

$$m = (2 + 5) - 3 (\text{finite } 5)$$

$$m = 7 - 3(\text{finite } 5)$$

$$m = 4 (\text{finite } 5)$$

10.  $b + 20^\circ + 110^\circ = 180^\circ$

$$b + 130^\circ - 130^\circ = 180^\circ - 130^\circ$$

$$b = 50^\circ$$

11. Try to observe the pattern of the sequence by looking at the difference between the numbers.

58,	33,	17,	8,	4
25	16	9	4	
$(5^2)$	$(4^2)$	$(3^2)$	$(2^2)$	

Next number in the series =  $8 - 4 = 4$

$$12. \text{ Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\begin{aligned} &= \frac{210\text{km}}{2\frac{1}{2}\text{hrs}} \\ &= 210 \div 2\frac{1}{2} \\ &= 210 \div \frac{5}{2} \\ &= 210 \times \frac{2}{5} \\ &= \frac{420}{5} = 84 \end{aligned}$$

Hence speed = 84 km/h

13. This is done through division

2	8	0
2	4	0
2	2	0
	1	

Hence  $8_{\text{ten}} = 1000_{\text{two}}$

14. We find the multiples of 8 and 12 with 5 added to the multiples

$8 \times 1 + 5 = 13$	$12 \times 1 + 5 = 15$
$8 \times 2 + 5 = 21$	$12 \times 2 + 5 = 29$
$8 \times 3 + 5 = 29$	$12 \times 3 + 5 = 41$

The smallest common number is 29

Hence the required number is 29

Alternatively: By finding the LCM

2	8	12
2	4	6
2	2	3
3	1	3
1	1	

$$\text{LCM} = 2 \times 2 \times 2 \times 3 + 5 \\ = 24 + 5 \\ = 29$$

15. Given principle,  $P = 72,000/-$   
Interest,  $I = 3600/-$   
Period of time,  $T = 1$  year

$$\text{Using } I = \frac{P \times R \times T}{100}$$

$$3600 = \frac{72,000 \times R \times 1}{100}$$

Multiplying both sides by 100

$$3600 \times 100 = \frac{72 \times R \times 1}{100} \times 100$$

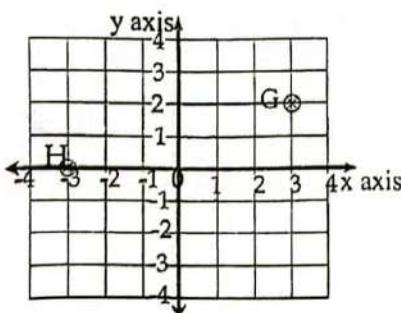
$$72R = 3600 \times 100$$

Dividing both sides by 72,000

$$\frac{72,000R}{72,000} = \frac{3600 \times 100}{72,000} = \frac{100}{20}$$

$$R = 5\%$$

16. (a) Coordinates of G are G(3, 2)  
(b) See the graph below for point H(-3, 0)



17. The time is by subtraction  
Hours minutes

$$\begin{array}{r} 14 & 27 \\ - 11 & \\ \hline 03 & 49 \end{array}$$

Hence the train took 2 hours 49 minutes

18.  $k + 2 < 6$   
 $k + 2 - 2 < 6 - 2$   
 $k < 4$

The solution set is

$$\{ \dots, -1, 0, 1, 2, 3 \}$$

OR  $\{ 3, 2, 1, 0, -1, \dots \}$

19. 19 plates cost sh. 34,200  
Total sales = cost price + profits  
= sh. 34,200 + sh. 3,800  
= sh. 38,000

Selling price per plate

$$= \text{sh. } \frac{38,000}{19} = \text{sh. } 2,000$$

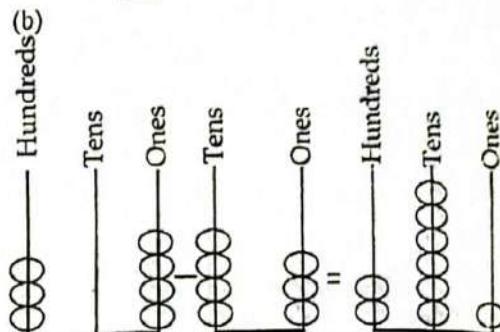
Hence he must sell at Shs. 2,000

20. This is done by division.  
Number of poles =  $66 \div 1.5$   
 $= 66 \div \frac{3}{2}$   
 $= \frac{66}{2} \times \frac{2}{3}$   
 $= 22 \times 2$   
 $= 44$  poles

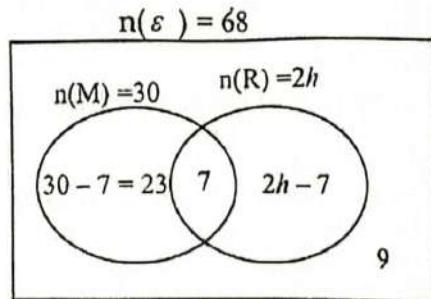
## SECTION B

21. (a)  $304 - 43$

$$\begin{array}{r} 304 \\ - 43 \\ \hline 261 \end{array}$$



22. (a) Completing the venn diagram



- (b) Number of pupils who ate rice only =  $2h - 7$

$$30 + 2h - 7 + 9 = 68$$

$$30 + 9 + 2h - 7 = 68$$

$$39 + 2h - 7 = 68$$

$$39 - 39 + 2h - 7 = 68 - 39$$

$$2h - 7 = 29$$

Hence the number of pupils who ate only rice is 29 pupils

23. (a)  $\frac{2.4 \times 0.5}{0.12} = \left( \frac{24}{10} \times \frac{5}{10} \right) \div \left( \frac{12}{100} \right)$   
 $= \left( \frac{24}{10} \times \frac{5}{10} \right) \times \left( \frac{100}{12} \right)$   
 $= 2 \times 5 = 10$

- (b) Making use of BODMAS

$$0.37 + 2.6 - 1.03$$

$$= 0.37 + 2.6 - 1.03$$

$$\begin{array}{r} 0.37 \\ + 2.60 \\ \hline 2.97 \end{array}$$

2.97

- 1.03

1.94

Hence  $0.37 + 2.6 - 1.03 = 1.94$

$\angle BAQ = 55^\circ$  (corresponding

angles are equal)

$$c + 116^\circ = 90^\circ + 55^\circ$$

sum of two interior angles is equal to the opposite exterior angle)

$$c + 116^\circ = 145^\circ$$

$$c + 116^\circ - 116^\circ = 145^\circ - 116^\circ$$

$$c = 29^\circ$$

Alternatively;

$$c + 116^\circ + \angle PAR = 180^\circ$$

But  $\angle PAR + \angle RAQ = 180^\circ$

$$\angle PAR + 145^\circ = 180^\circ$$

$$\angle PAR + 145^\circ - 145^\circ = 180^\circ - 180^\circ$$

$$\angle PAR = 35^\circ$$

$$\text{Now } c + 116^\circ + 35^\circ = 180^\circ$$

$$c + 151^\circ = 180^\circ$$

$$c + 151^\circ - 151^\circ = 180^\circ - 151^\circ$$

$$c = 29^\circ$$

15. The container given is a cylinder.

$$\text{Volume of a cylinder} = \pi r^2 h$$

$$\begin{aligned} \text{Volume of container} &= \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \times 20 \\ &= 22 \times 7 \times 20 \\ &= 11 \times 7 \times 10 \\ &= 770 \text{ cm}^3 \end{aligned}$$

Quantity of oil sold = 15.4 litres

But 1 litre = 1000 cm<sup>3</sup>

$$\begin{aligned} 15.4 \text{ litres of oil} &= 15.4 \times 1000 \\ &= 15400 \text{ cm}^3 \end{aligned}$$

$$\begin{aligned} \text{Number of containers sold} &= \frac{15400 \text{ cm}^3}{770 \text{ cm}^3} \\ &= 20 \text{ containers} \end{aligned}$$

9

= 2h-1

$$\begin{aligned} 16. \text{ Total expenditure} &= \text{Sh. } 30,000 - \text{sh. } 9,250 \\ &= \text{Sh. } 20,750 \end{aligned}$$

$$\begin{aligned} \text{Total cost of sugar} &= 2 \times 4,000 \\ &= \text{sh. } 8,000 \end{aligned}$$

Total cost of 3 loaves of bread

$$\begin{aligned} \text{Total expenditure} - \text{total cost of sugar and milk} &= 20,750 - (8,000 + 2,250) \\ &= 20,750 - 10,250 \\ &= \text{Sh. } 10,500 \end{aligned}$$

$$\text{Unit cost of a loaf of bread} = \frac{10,500}{3} = \text{sh. } 3500$$

$$\text{Number of litres of milk} = \frac{2,250}{1,500} = 1\frac{1}{2} \text{ litres}$$

Completing the table;

Item	Unit cost	Total cost
2kg of sugar	Sh. 4,000 per kg	Sh. 8,000
3 loaves of bread	Sh. 3,500 per loaf	Sh. 10,500
1½ litres of milk	Sh. 1,500 per litre	Sh. 2,250
<b>Total Expenditure</b>		Sh. 20,750

27. (a) Establishing a table of results

From A to B

Time	11:30a.m	12:30pm	1:30pm	2:10pm
Distance	0 km	60km	120km	120km

From B to C

$$\text{Distance covered} = 96 \text{ km}$$

$$\begin{aligned} \text{Total distance covered from A to C} &= 120 \text{ km} + 96 \text{ km} \\ &= 216 \text{ km} \end{aligned}$$

$$(b) \text{ Time taken from B to C} = \frac{\text{Distance}}{\text{Speed}}$$

$$= \frac{96}{64} = 1\frac{1}{2} \text{ hours}$$

$$\begin{aligned} \text{Arrival time at C} &= 2:10 \text{ pm} + 1 \text{ hr } 30 \text{ min} \\ &= 3:40 \text{ pm} \end{aligned}$$

$$28. \text{ Mean mark} = \frac{\text{Total marks scored}}{\text{Total number of pupils}}$$

$$= \frac{40 \times 2 + m \times 6 + 60 \times 3 + 70 \times 3}{2 + 6 + 3 + 3}$$

$$= \frac{80 + 6m + 180 + 210}{14}$$

$$= \frac{470 + 6m}{14}$$

But mean mark = 55

$$\text{Hence } \frac{470 + 6m}{14} = 55$$

Multiplying by 14 on both sides;

$$14 \times \frac{470 + 6m}{14} = 55 \times 14$$

$$470 + 6m = 770$$

$$470 - 470 + 6m = 770 - 470$$

$$6m = 300$$

$$m = \frac{300}{6} = 50$$

29. Number of goats : cows : sheep

$$= 4 : 3 : 5$$

$$\text{Total ratio value} = 4 + 3 + 5 = 12$$

Let  $x$  = number of goats

Then, number of sheep =  $x + 40$

$$\frac{\text{Number of goats}}{\text{Number of sheep}} = \frac{x}{x+40}$$

$$\frac{x}{x+40} = \frac{\frac{4}{12}}{\frac{5}{12}}$$

$$\frac{x}{x+40} = \frac{4}{12} \times \frac{12}{5}$$

$$\frac{x}{x+40} = \frac{4}{5}$$

By cross multiplication;

$$5x = 4(x + 40)$$

$$5x = 4x + 160$$

$$5x - 4x = 4x - 4x + 160$$

$$x = 160$$

Number of sheep =  $x + 40$   
 $= 160 + 40 = 200$

Let number of cows =  $y$

$$\frac{\text{Number of goats}}{\text{Number of cows}} = \frac{160}{y}$$

$$\frac{160}{y} = \frac{4}{3}$$

$$\frac{160}{y} = \frac{4}{3} \times \frac{12}{12}$$

$$\frac{160}{y} = \frac{4}{3}$$

By cross multiplication;

$$160 \times 3 = 4 \times y$$

$$y = \frac{160 \times 3}{4} = 40 \times 3$$

$$y = 120$$

Hence there are 160 goats, 120 cows and 200 sheep on the farm

**Alternatively:**

Goats = 4 parts

Cows = 3 parts

Sheep = 5 parts

Total parts =  $4 + 3 + 5 = 12$

Sheep =  $5 - 4 = 1$  more part than goats

1 part = 40

12 parts =  $40 \times 12 = 480$

$$\text{Goats} = \frac{4}{12} \times 480 = 4 \times 40 = 160 \text{ goats}$$

$$\text{Cows} = \frac{3}{12} \times 480 = 3 \times 40 = 120 \text{ cows}$$

$$\text{Sheep} = \frac{5}{12} \times 480 = 5 \times 40 = 200 \text{ sheep}$$

30. (a) Area of a parallelogram

$$= \text{length} \times \text{height}$$

$$= 6\text{cm} \times 16\text{cm}$$

$$= 96\text{cm}^2$$

- (b) Using the same area of the parallelogram;

Let length DY =  $y$  cm

$$y \times 12 = 96$$

$$12y = 96$$

$$y = \frac{96}{12} = 8$$

Hence Length DY = 8cm

31. Let  $x$  = cost a pineapple

Item	Pawpaw	Mango	Pineapple
Cost	$80 + \frac{2x}{3}$	$\frac{2x}{3}$	$x$

Total cost of the items = Sh.4,300

$$80 + \frac{2x}{3} + \frac{2x}{3} + x = 4,300$$

$$80 + 80 + \frac{2x}{3} + \frac{2x}{3} + x = 4,300 - 800$$

$$\frac{2x}{3} + \frac{2x}{3} + x = 4220$$

Taking LCM the left hand side

$$\frac{2x + 2x + 3x}{3} = 3500$$

$$\frac{7x}{3} = 3500$$

Multiplying both sides by 3

$$3 \times \frac{7x}{3} = 3500 \times 3$$

$$7x = 350 \times 3$$

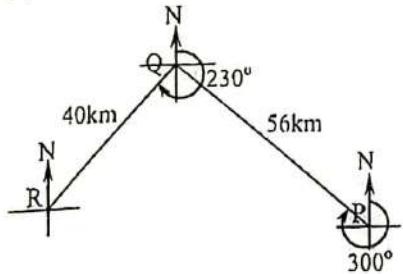
$$x = \frac{3500 \times 3}{7}$$

$$x = 500 \times 3$$

$$x = 1500$$

Hence the cost of pineapple is Sh. 1500

32. (a) Rough sketch



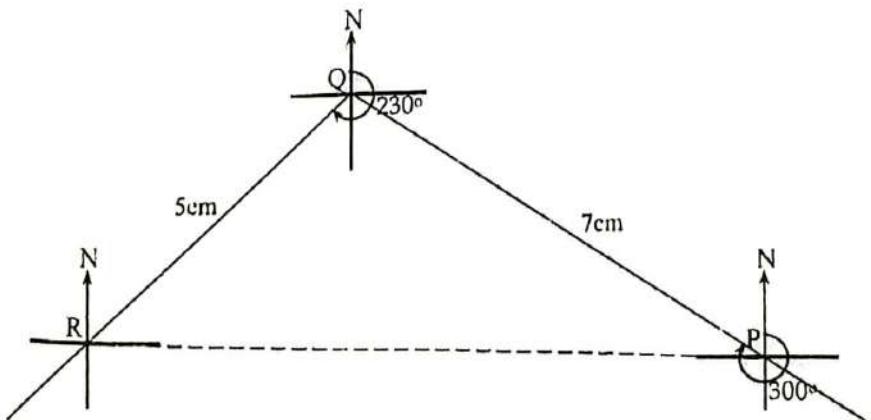
Drawing to scale;

Distance PQ = 56km

$$= \frac{56}{8} = 7\text{cm}$$

Distance QR = 40km

$$= \frac{40}{8} = 5\text{cm}$$



(b) Bearing of R from Island P =  $180^\circ + 92^\circ = 272^\circ$