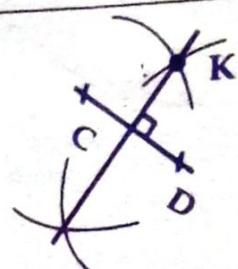
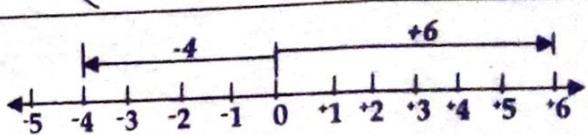
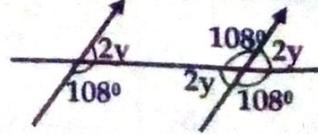


# THE PRIME PRE-MOCK EXAMINATIONS 2023

## P.7 MATHEMATICS MARKING GUIDE

SECTION A (40 MARKS)						MARKS	COMMENT						
NO	SOLUTION	MARKS	COMMENT	NO	SOLUTION								
1	$\begin{array}{r} 34 + 52 = 355 \\ \quad + 43 \\ \hline 398 \end{array}$	B <sub>2</sub>	Follow through	2	146 <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>100</td><td>40</td><td>6</td></tr><tr><td>C</td><td>XL</td><td>VI</td></tr></table>	100	40	6	C	XL	VI	B <sub>2</sub>	Follow through
100	40	6											
C	XL	VI											
3	$\begin{array}{r} 2 \\ 305 \\ \times 4 \\ \hline 1220 \end{array}$	M <sub>1</sub> A <sub>1</sub>	Follow through	4	146 = CXLVI $Z' = \{4, 5, 9, 10\}$	M <sub>1</sub> A <sub>1</sub>	Follow through						
5	$\begin{aligned} F_{24} &= 1 \times 24 \\ &\quad 2 \times 12 \\ &\quad 3 \times 8 \\ &\quad 4 \times 6 \\ F_{24} &= \{1, 2, 3, 4, 6, 8, 12, 24\} \end{aligned}$	B <sub>1</sub> B <sub>1</sub>	Follow through	6		A <sub>1</sub>	Follow through						
7	$\begin{aligned} 6325 \times 10 \times 10 \\ 1000 \\ 6325 \\ 10 \\ 632.5 \end{aligned}$	M <sub>1</sub> A <sub>1</sub>	Follow through	8									
9	$\begin{aligned} 2m + 4 - 4 &= 6 - 4 \\ 3 \\ 3 \times 2m &= 2 \times 3 \\ 3 \\ 2m &= 6 \\ 2m &= 6 \\ 2 &- 2 \\ m &= 3 \end{aligned}$	M <sub>1</sub> A <sub>1</sub>	Follow through	10	$\begin{aligned} 1 \text{ packet weighs } 500g \\ 24 \text{ packets weigh } 24 \times 500g \\ = 12000g \\ 1000g = 1kg \\ 1g = (\frac{1}{1000})kg \\ 12000kg = (\frac{1}{1000} \times 12000)kg \\ = 12kg \end{aligned}$	B <sub>1</sub>	Accept						
11	$\begin{aligned} DC &= \{1, 3, 6, 10\} \\ n(D.C) &= 4 \\ n(S.S) &= 10 \\ P(\text{triangular no.}) &= \frac{4}{10} \end{aligned}$	B <sub>1</sub> B <sub>1</sub>	Follow through	12	$\begin{array}{r} 2 \\ 1 \ 3 \ 3 \\ 1 \ 2 \ 0 \ 1 \ \text{three} \\ - 1 \ 2 \ 2 \ \text{three} \\ \hline 1 \ 0 \ 0 \ 2 \ \text{three} \end{array}$	A <sub>1</sub>	Follow through						
13	$\begin{aligned} 4 \text{ pineapples cost sh.} 10,000 \\ 1 \text{ pineapple costs sh. } \underline{\underline{10,000}}^{2500} \\ 4 \\ = \text{Sh.} 2500 \\ 9 \text{ pineapples cost sh. } 2500 \\ \times 9 \\ \hline \text{sh} 22,500 \end{aligned}$	B <sub>1</sub> B <sub>1</sub>	Follow through	14	$\begin{array}{r} 3.57 \\ + 0.01 \\ \hline 3.58 \end{array}$	A <sub>1</sub>	Follow through						
15	$\begin{aligned} \text{Total age of father and 4 children} \\ = 5 \times 15 \text{ yrs} \\ = 75 \text{ yrs} \end{aligned}$	B <sub>1</sub>	Follow through	16		M <sub>1</sub>	Follow through						

Total age of children  

$$\begin{array}{r} 75 \\ - 36 \\ \hline 39 \text{ yrs} \end{array}$$

B1

$$\begin{aligned} 2y + 108^\circ &= 180^\circ \\ 2y + 108^\circ - 108^\circ &= 180^\circ - 108^\circ \\ 2y &= 72^\circ \\ \underline{2y} &= \underline{72^\circ} \\ 2 &= 2 \\ y &= 36^\circ \end{aligned}$$

A1

17  $S.I = P \times R \times T$   
 $= Sh 240,000 \times \frac{1}{100} \times \frac{9}{12}$   
 $= sh 2400 \times 3$   
 $= sh 7200$   
 $\text{Amount} = P + S.I$   
 $= Sh 240,000$   
 $+ Sh 7200$   
 $\underline{\underline{Sh 247,200}}$

B1 Follow through

18  $60 \text{ minutes} = 1 \text{ hr}$   
 $1 \text{ min} = \frac{1}{60} \text{ hr}$   
 $45 \text{ min} = \left( \frac{1}{60} \times 45^3 \right) \text{ hr}$   
 $\frac{3}{4} \text{ hr}$   
 $S = D \div T$   
 $= 18 \text{ km} \div \frac{3}{4} \text{ hr}$   
 $(18 \times \frac{4}{3})$   
 $\underline{\underline{= 24 \text{ km/hr}}}$

M1

Follow through

19  $= \sqrt{ab + 4}$   
 $= \sqrt{12 \times 5} + 4$   
 $= \sqrt{60 + 4}$   
 $= \sqrt{64}$   
 $\underline{\underline{= 8}}$

M1 Follow through

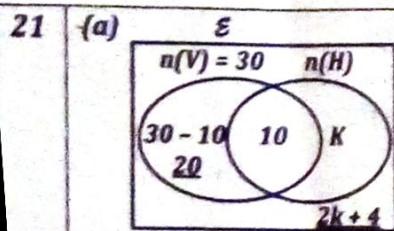
A1

20  $r = \frac{d}{2} = \frac{10}{2} \text{ cm}$   
 $C = 2\pi r$   
 $= 2 \times 3.14 \times \frac{10}{2} \text{ cm} \times \frac{10}{2} \text{ cm}$   
 $2 \times \frac{314}{100} \times \frac{10}{2} \text{ cm} \times \frac{10}{2} \text{ cm}$   
 $\underline{\underline{= 157 \text{ cm}}}$

M1

Follow through

## SECTION B (60 marks)



B1 Follow through

B1

b)  $2k + 4 = 20$   
 $2k + 4 - 4 = 20 - 4$   
 $2k = 16$   
 $2k = 16 \div 2$   
 $2_1 \quad 2_1$   
 $k = 8$

B1

(c)  $n(H) = 10 + K$   
 $= 10 + 8$   
 $\underline{\underline{= 18 \text{ Players}}}$

B1

05

22 Solution.  
 $B.P = 80 \times sh 300$   
 $\underline{\underline{= sh 24,000}}$

$$\begin{aligned} &\frac{80 \times 290}{1000} \\ &= 16 \text{ kg} \\ &16 \times 1750 \\ &= sh. 28,000 \\ &sh. 28000 - 24000 \\ &= sh. 4000 \\ &\text{Percentage} \% \frac{4000}{24000} \times 100 \\ &\underline{\underline{= 16 \frac{2}{3} \%}} \end{aligned}$$

B2

Follow through

B1

B1

B1

05

3 Total decimal for women and men  
 $0.45$   
 $+\underline{0.30}$   
 $\underline{\underline{0.75}}$

B1 Follow through

B1

Decimal for children  
 $1.10$   
 $-\underline{0.75}$   
 $\underline{\underline{0.25}}$

B1

a)  $D = S \times T$   
 $= \frac{30}{60 \text{ km}} \times \frac{3 \text{ hrs}}{1 \text{ hr}}$   
 $\underline{\underline{= 90 \text{ km}}}$

M1

Follow through

A1

b) Time =  $2 : 30$        $\frac{90}{60} 1r30$   
 $\quad + 1 : 30$   
 $\quad + 30$   
 $\underline{\underline{1 : 00}}$   
 $\underline{\underline{5 : 30 pm}}$

M1

M1

A1

$T.D = 90 \text{ km} + 90 \text{ km} = 180 \text{ km}$

$T.T = 1\frac{1}{2} h + \frac{1}{2} h + 1h$

$\underline{\underline{- 2h}}$

No. of adults  
 $\frac{70}{100} \times 36 \text{ p } 14$   
 $\underline{\underline{= 270 \text{ adults}}}$

B1

No. of children

$$\frac{15}{100} \times 360 = 54$$

$\approx 54$  children

Difference

$$270$$

$$- 54$$

$$216$$

180 more adults

25 (a) Let the 2nd number be  $g$

1st	2nd	3rd	sum
$g-2$	$g$	$g+2$	87

$$g-2 + g + g+2 = 87$$

$$g+g+g+2 \cdot 2 = 87$$

$$3g = 87$$

$$3g = 87 - 2 \cdot 2$$

$$3g = 87 - 4$$

$$3g = 83$$

$$g = 29$$

$$1st \text{ no.} = g-2 \quad 3rd \text{ no.} = g+2$$

$$29-2 = 29+2$$

$$= 27$$

$$= 31$$

The numbers are 27, 29, 31

Odd numbers.

27 (a) Length of land fenced

$$= 2(L+W) \cdot 4m$$

$$= 2(90m + 76m) \cdot 4$$

$$= 2 \times 166m \cdot 4$$

$$= 332m \cdot 4$$

$$= 328m$$

$$\text{No. of poles used} = \frac{L}{4} + 1$$

$$= \frac{328m}{4} + 1$$

$$= 82 + 1$$

$$= 83 \text{ poles.}$$

(b) Amount spent on all the poles

$$= Sh(83 \times 4000)$$

$$= Sh. 332,000$$

B1

B1

Follow through

05

$$A.S = T.D.C$$

T.T.T

$$= 190 \text{ km}$$

3h

$$\approx 60 \text{ km/hr}$$

05

M1

A1

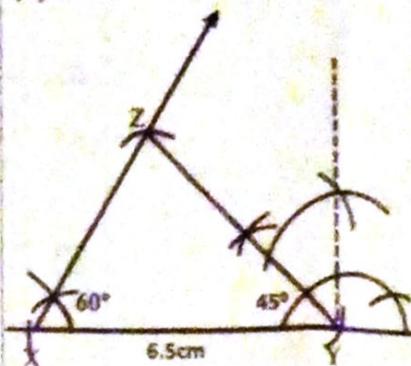
B1

B1

B1

05

26 (a)



$$(b) \angle XYZ = 75^\circ$$

M1

A1

M1

M1

A1

M1

M1

M1

A1

05

28 Let the cost of a watermelon be  $h$

Mango	water melon	Pineapple
$\frac{1}{4}h$	$h$	$h-2500$

$$2 \times \frac{1}{4}h = h-2500 - 500$$

$$\frac{h}{2} = (h-3000)$$

$$2 \times \frac{h}{2} = (h-3000) \times 2$$

$$H = 2h - 6000$$

$$6000 = 2h - 6000$$

$$6000 = 2h - h$$

$$6000 = h$$

$$\therefore h = sh. 6000$$

M1

M1

M1

A1

05

29 (a)

No. of pupils who scored 50%

$$\frac{22}{36} \times 50$$

$$360^\circ$$

$$= 10 \text{ pupils}$$

B1

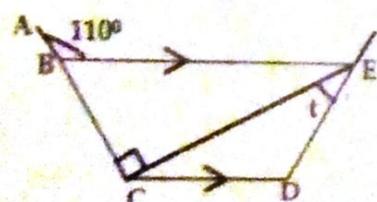
B1

B1

B1

B1

05



$$(a) \angle BEC = 180^\circ - 110^\circ$$

$$180^\circ - (90^\circ + 70^\circ)$$

$$= 20^\circ$$

$$t = 70^\circ - 20^\circ$$

$$l = 50^\circ$$

$$(b) \angle CDE = 180^\circ - (40^\circ + t)$$

$$= 180^\circ - (40^\circ + 30^\circ)$$

$$= 180^\circ - 70^\circ$$

$$= 110^\circ$$

05

30 (a)

No. of pupils who scored 50%

$$\frac{22}{36} \times 50$$

$$360^\circ$$

$$= 10 \text{ pupils}$$

No. of pupils who scored 48% than 30%

$$144^\circ - 108^\circ$$

$$= 36^\circ$$

(b)

$$\frac{22}{36} \times 60$$

$$360^\circ$$

$$= 6 \text{ more pupils.}$$

B1

B1

B1

B1

B1

05

31 Let the numbers be X, Y and Z

(a)  $X = 2$   
 $12$   
 $X = 2 \times 12$   
 $\underline{\underline{= 24}}$

$$Y = 3 \times 12$$

$$\underline{\underline{Y = 36}}$$

$$Z = 5$$

$$12$$

$$Z = x 12$$

$$\underline{\underline{= 60}}$$

(b)  $LCM = 2 \times \underbrace{3}_{6} \times \underbrace{5 \times 12}_{60}$

$$\underline{\underline{= 360}}$$

B1

B1

B1

B1

B1

05

32

(a)  $1m = 100cm$   
 $2m^3 = 2m \times m \times m$   
 $2m^3 = (2 \times 100 \times 100 \times 100)cm^3$   
 $2m^3 = 2000,000cm^3$

$$L \times W \times H = Vol$$

$$L \times 80cm \times 50cm = 2000,000$$

$$\frac{L \times 2000,000}{5} = 4000,000$$

$$4000 = 4000$$

$$L = 500cm$$

$$L = \frac{500}{100}$$

$$L = 5m$$

(b)

$$500cm \times 80cm$$

$$= 40,000cm^2$$

# THE PRIME PRE-MOCK ENGLISH

No.	Answer
1.	• What
2.	• at
3.	• that
4.	• listening
5.	• carpenter
6.	• travelled
7.	• carefully
8.	• interesting
9.	• pronunciation
10.	• mopping
11.	• reporter
12.	• best
13.	• addresses
14.	• oneself
15.	• Ghanaian
16.	• Chinese, French, Kiswahili, Latin
17.	• vacate, vacated, vacation, vacationer
18.	• Road
19.	• must not
20.	• .....money.....
21.	• .....half-sisters.....
22.	• Her brother is a <u>teacher</u> in that school
23.	• She always eats fruit <u>twice</u> a day.
24.	• Do you know how to <u>swim</u> ?
25.	Any grammatically correct sentence with meaning.
26.	1.
27.	The pupils <u>quickly</u> walked to school.
28.	• The holiday makers <u>ended</u> the holiday last week.
29.	• The post man has delivered some letters today.
30.	• What a long holiday it was!
31.	• Although we all passed the examination, Ondu failed it.
32.	• John lent some money to Ken.
33.	• She met her uncle when she was travelling to the village.
34.	• How important the dictionary is!
35.	• That big hotel belongs to my father.
36.	• The bus arrived in Kampala late in the evening.
37.	• Musa dislikes eating cakes.
38.	• I am not going to buy a new book.

Su

40. • Sam wanted to know from Mary what the motion of the debate was.
41. • Whose thesaurus is this?
42. • By whom was that revision timetable made?
43. • Not only is my uncle a farmer but also a doctor.
44. • She prefers eating cakes to eating bread.
45. • Mr. Mubiru, who is the owner of City Radio Station, is my uncle.
46. • There goes the boy with whom I contested in the elections of prefects.
47. • Neither Kamau nor Deng is a Ugandan.
48. • If I were a car, you would drive me.
49. • The bank is after the post office.
50. • He is not a professional tailor, is he?

**Section B (5)**

51. (a) ..... Pader Primary School.  
 (b) ..... in Kampala.  
 (c) ..... on 10th May 2023.  
 (d) ..... for mock examination.  
 (e) ..... in July.  
 (f) ..... for all the necessities she bought her when she was reporting to school.  
 (g) ..... to buy a dictionary for her.  
 (h) ..... carrying out research.  
 (i) ..... also reminded her mother about visitation day.  
 (j) According ..... on 20th July 2023.
52. A (a) ..... in Prime Newspaper of 10th April 2023.  
 (b) ..... on 10th April 2023.  
 (c) The general public.....  
 (d) ..... along Mumba Street in Kumpe Town.  
 (e) The management of Kakumba and sons Grocer's.....
- B (a) ..... shows candidates that sat PLE in Bello Primary School in 2021.  
 (b) Six candidates.....  
 (c) Kirabo Mercy.....  
 (d) I think Akia Pretty .....  
 (e) Opolot Sam.....
53. (a) ..... about the hard working carpenter.  
 (b) ..... to the community.  
 (c) ..... very early every day.  
 (d) ..... by bicycle.  
 (e) ..... in Kibembe Trading Centre according to the poem.  
 (f) ..... saw, hammer.  
 (g) ..... for cutting wood and metals.  
 (h) A hammer.....  
 (i) ..... Primary Six Blue.  
 (j) (i) long lasting.
54. (a) Welcome back home, father/ daddy/ dad.  
 (b) I am sorry I broke the television.  
 (c) I used a hammer to break the television.  
 (d) I wanted to see the people talking on the television.

- (e) Father, you were not home  
(f) Mother was busy in the kitchen.  
(g) I found out that the presenters do not sit inside the television.  
(h) My teacher did not tell me about the television.  
(i) I was shy.  
(j) Thank you father/daddy/dad, I promise never to do it again.

55.

Awarding

Writer's address – **1 mark**

Date -  $\frac{1}{2}$  **mark**

Salutation – **1 mark**

Body - **3marks**

Leave taking –  $\frac{1}{2}$  **marks**

Conclusion **1 mark**

Name -  $\frac{1}{2}$  **mark**

Spelling -  $\frac{1}{2}$  **mark**

Punctuation -  $\frac{1}{2}$  **mark**

Type of letter -  $\frac{1}{2}$  **mark**

Paragraphing -  $\frac{1}{2}$  **mark**

Tense -  $\frac{1}{2}$  **mark**

---

**Total – 10 marks**

---

It helps a farmer to plan for the farm activities according to weather changes./ It helps a farmer to know the best time for planting.

Democratic Republic of Congo./ DRC

Trees control soil erosion/ Trees act as wind breaks/ Trees provide shade/ Trees provide fruits.

It leads to death./ It leads to early pregnancy/ Children drop out of schools/ It leads to injuries.

He wrote a letter inviting the missionaries to Uganda.

They were the Arabs./ Arab traders.

$$\begin{array}{r}
 15^{\circ} - 1 \text{ hr} \quad \quad \quad 2 \\
 6 : 00 \text{ am} \quad \quad \quad 30 = 30^{\circ} \\
 + 2 : 00 \text{ hrs} \quad \quad \quad 15 \\
 \hline
 8 : 00 \text{ am} \quad \quad \quad = 2 \text{ hrs}
 \end{array}$$

It was used for communication / For entertainment.

It helps to stop big fires. / It helps to rescue people trapped in collapsed buildings.

He introduced Islam to Uganda. / He was the first Arab trader to come to Uganda.

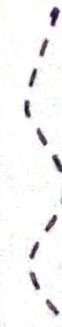
It is in charge of setting laws for the EAC.

It leads to enmity/ It leads to damage of school property/ Parents don't bring children to the school.

Indian Ocean.

To learn their culture/ to learn things of long ago. / To learn morals./ To promote cultural identity.

15



Ugandans learnt to demand for their rights./ Ugandans were able to communicate to the international community./ It created awareness among people.

16. Ugandans learnt to demand for their rights./ Ugandans were able to communicate to the international community./ It created awareness among people.

17. It is a school uniform.

18. Both are island countries./ Both are surrounded by oceans.

19. District Education Officer (DEO)

20. It leads to fish extinction / It reduces the fish in the waterbodies./ They lead to pollution of waterbodies.

21. A driver is supposed to reduce the speed.

22. It is due to difference in altitude. / It is due to difference in climate. / It is due to difference in human activities.

23. He had not yet discovered fire. / There was no fire.

24. Child labour/ deny them education/ defilement/ medical care/ parental love.

25. They provide water for domestic use. / Crops can be grown around oasis.

26. It was "God help the Queen." / British anthem

27. It leads to ;  
high crime rate / shortage of land/ easy spread of diseases/ high cost of living./ It increases labour force.

28. They relax their minds/ they develop physical fitness/ they learn new skills/ they get new friends.  
They lead to boat accidents/ They are hiding places for pirates.

29. They lead to environmental degradation.  
It leads to diseases/ it leads to bad smell/ it makes the environment dirty / It leads to environmental degradation.

30.

31.	He built a mission station at Natete/ He printed Christian books/ He taught Christianity. / He bought a printing press for printing prayers.										
32.	It is located in North Africa.										
33.	They are used for organizing crimes/ They show pornography. / They are time wasting/ They need regular charging.										
34.	LEGO used to set laws during colonial rule while parliament is setting laws today. / Members of the LEGO were nominated while members of the parliament were elected.										
35.	Antarctica is not permanently inhabited like other continents.										
	<b>OR</b>										
35.	<b>EITHER</b> <table border="1"> <tr> <td>- They sing the gospel songs. / They give sermons in church / They read the Bible.</td> <td>- They recite the Quran. / They preach in the mosque.</td> </tr> <tr> <td>- He accepted to sacrifice his beloved son. / He accepted to go to unknown land.</td> <td>- Same as Either.</td> </tr> <tr> <td>- Ash Wednesday.</td> <td>- The sight of the new moon.</td> </tr> <tr> <td>- They visit them / They greet them. / They advise them. / They give them gifts.</td> <td>- They visit them. / They greet them. / They give them Zakah.</td> </tr> <tr> <td>- They sweep the church. / They slash around the church/ They repair the church.</td> <td>- They sweep the mosque/ They slash around the mosque/ They repair the mosque.</td> </tr> </table>	- They sing the gospel songs. / They give sermons in church / They read the Bible.	- They recite the Quran. / They preach in the mosque.	- He accepted to sacrifice his beloved son. / He accepted to go to unknown land.	- Same as Either.	- Ash Wednesday.	- The sight of the new moon.	- They visit them / They greet them. / They advise them. / They give them gifts.	- They visit them. / They greet them. / They give them Zakah.	- They sweep the church. / They slash around the church/ They repair the church.	- They sweep the mosque/ They slash around the mosque/ They repair the mosque.
- They sing the gospel songs. / They give sermons in church / They read the Bible.	- They recite the Quran. / They preach in the mosque.										
- He accepted to sacrifice his beloved son. / He accepted to go to unknown land.	- Same as Either.										
- Ash Wednesday.	- The sight of the new moon.										
- They visit them / They greet them. / They advise them. / They give them gifts.	- They visit them. / They greet them. / They give them Zakah.										
- They sweep the church. / They slash around the church/ They repair the church.	- They sweep the mosque/ They slash around the mosque/ They repair the mosque.										
	<b>Section B (60 Marks)</b>										
41.	(a) it is an organisation where member countries have come together to trade. / It was an organisation formed by countries mainly carrying out trade.										
	(b) Economic Community of West African States. (ECOWAS)										
	(c) Civil wars in some member states/ Lack of a common currency. / Different levels of development. / Differences in political ideologies.										
42.	(a) By birth, by registration, by adoption, by descent.										
	(b) Reporting the human rights abuses. / Enforcing laws on violation of human rights. / Arrest people who violate human rights.										
43.	(a) It was December.										
	(b) It was May.										
	(c) It can be made possible by irrigation.										
	(d) $43^{\circ}C - 30^{\circ} = 13^{\circ}C$										
44.	(a) Loans, grants, taxation, court fines										
	(b) Paying civil servants/ building schools, hospitals, roads, dams, bridges./ paying debts										
45.	(a) Religious leaders/ Cultural leaders/ Civic leaders/ Voluntary leaders/ Political leaders.										
	(b) Through appointment/ Through winning elections/ Through inheritance/ Through volunteering.										
46.	(a) It is Ethiopia.										
	(b) It is a land locked country. / It has no seaport.										
	(c) South west./ South westerly/ SW.										
	(d)										
47.	(a) It was Germany.										
	(b) Africa was partitioned among the European powers/ The Africans lost their independence/ Europeans started exploiting resources in Africa.										
	(c) It was a homeland of freed slaves from America.										
48.	(a) Sir Harry Johnston										
	(b) He was still an infant.										
	(c) They got the crown land/ They reduced the powers of the Kabaka/ They strengthened their power over Buganda/ They started to collect hut and gun tax.										

49.	(a) River "P" carries less water than river "X" / River X carries more water than River P (b) Nasser dam/ Jabel Aulia dam / Aswan high dam (c) The Northern part is on a lower altitude than the South (d) it ends in form of an estuary.	
50.	(a) <b>Wind sock:</b> shows direction of wind. (b) <b>Rain gauge:</b> measures the amount of rainfall. (c) <b>Sunshine recorder:</b> measures the duration of sunshine in a day. (d) <b>Sir's thermometer:</b> measures the temperature of the day.	Or Either
51.	(a) Pentecost day. (b) They started to speak in tongues/ They started performing miracles. (c) wisdom, knowledge, fear of the Lord, performing miracles.	(a) Paying Zakah. (b) To purify their wealth. / To get blessings from Allah. (c) They are poor.
52.	(a) stealing, fighting, back biting, telling lies, dodging classes. (b) Dropping out of school/ Early pregnancies/ going to the street/ getting punished.	(a) Fighting, stealing, telling lies, dodging classes. (b) Dropping out of school/ early pregnancies/ going to the street/ getting punished.
53	(a) Angel Gabriel (b) To be an example to the rest. (c) They were the three wise men. (magi) (d) He was a new born king.	(a) Angel Gibril/ Angel Jibril/ Jibreel (b) He was told to read yr t he was an illiterate. (c) Hira cave. (d) Muhammad was a faithful and an honest person.
54.	(a) These are the groups of people who help without being paid. (b) Providing medical care, food, education, clothes. (c) They take them to hospitals/ They give them basic needs.	(a) Is a prayer recited alone. (b) Laughing, farting, looking side by side, sleeping. (c) To show respect to Allah. / To avoid causing temptations to the opposite sex.
55.	(a) He preached about repentance and the coming of the Messiah. (b) Zachariah. (c) Jesus was greater than John the Baptist. (d) He was beheaded.	(a) Allah is the creator of everything. (b) sun, moon, stars. (c) She was Haawa. (d) He was beheaded.

# THE PRIME PRE-MOCK INTEGRATED SCIENCE

Section A (10 marks)

Answers

- N.B.**
1. • A burn/ burns.
  2. • Lovers/ sitting birds
  3. • Through shivering/ By lowering the sweating rate/ By vasoconstriction.
  4. • To preserve the soda since carbon dioxide does not support life of germs.
  5. • Spiders/ A spider.
  6. • It is used for trapping prey.
  7. • By carrying out transpiration / Plants release water vapour that condense to form Nimbus clouds.
  8. • Cattle provide people with milk and meat/ Dung from cattle is a good source of farm yard manure/ Bones, hooves and horns are used for making animal feeds and glue.
  9. • Plane mirrors.
  10. • Aerobic bacteria.
  11. • To increase the pitch of sound.
  12. • Through castration.
  13. • Artificial immunity.
  14. • To kill germs.
  15. • Hydrostatic skeleton.
  16. • It is used for feeding/ For absorbing food/ Feeding.
  17. • Severe diarrhoea leads to dehydration.
  18. • Passive smoking/ active smoking.
  19. • Viscosity friction.
  20. • To get more energy/ To get energy.
  21. • To be filtered.
  22. • Animals release carbon dioxide used as a raw material for photosynthesis to take place.
  23. • A bat.
  24. • Kindling.
  25. • A switch
  26. • A switch breaks and completes the circuit at the user's wish.
  27. • Implantation.
  28. • Biological changes/ biological change.
  29. • For playing/ skipping/ making balls
  30. • Kilograms/ Kg.
  31. • They run around in the compound/ They are not confined /kept in one place.
  32. • Echoes help sailors to determine the depth of water bodies/to dodge obstacles in water/ to locate a big shoal of fish in water.
  33. • The soil, sun, water, Air and wind rocks and minerals, fossil fuels.
  34. • The tongue rolls food into a bolus.
  35. • The crown.

47	(a) Matter exerts pressure. (b) Water tank B is closed hence no pressure is exerted to push out water. (c) Matter occupies space. / Matter has weight. / Matter can be compressed. (d) Matter exerts pressure.
48	(a) Smoking, pollution, alcohol and drug abuse, malnutrition, disease outbreak, anti-social behaviour, improper disposal of wastes etc. (b) (i) Night blindness, Beriberi, pellagra, scurvy, rickets, goiter, marasmus, kwashiorkor, anaemia. (ii) lung cancer, emphysema.
49	(a) (i) Filtration method, decanting method, distillation method. (ii) Boiling, chemical treatment of water. (b) Defecating in water sources/ urinating in water sources/ through silting/ bathing in water sources/ swimming in water sources/washing from the water sources.
50	(i) Kidding: Is the act of feeding on the soft parts of plants especially branches and leaves. (ii) Browsing: Is the act of giving birth in goats. (iii) Lambing: Is the act of giving birth by a sheep. (iv) Heat period: Is the period when a nanny is ready to be mated.
51	(a) Annual crops. (b) Perennial crops (c) Coffee plants, banana crops, orange, mangoes, avocados, rubber crops etc.
52	(i) Boys The penis increases in size. The enlargement of the testicles. The testis start producing sperms/ The boy start experiencing wet dreams. (ii) Girls Development of the uterus/ Production of the ova in the ovaries/ Menstruation begins/ Ovaries develop and start releasing eggs/ Thickening of uterine walls/ The fallopian tubes and vagina matures. (b) Adolescents develop some anti-social behaviour/ It brings conflicts between the adolescents and the parents, teachers and elders/ They gain forms of desires brought by sexual maturation. / It brings sexual conflicts.
53	(a) Light energy. (b) It enables the skin to manufacture vitamin D to prevent rickets. (c) The moon reflects its light rays from the sun. (d) Heat energy, light energy, solar energy.
54	(a) soil contains air (b) Air bubbles (c) Soil contains mineral salts/ Soil has humus. (d) Humus (organic matter), water (moisture), air, rock particles, living organism, dissolved mineral salts.
55	(a) (i) Methyl (methanol alcohol) (ii) Ethyl (ethanol alcohol) (b) Loss of family respect/ It leads to family neglect/ It leads to poverty in the family. / It causes violence in homes. / leads bad behaviour among children.

37. Permanent teeth/ secondary set.

- (i) It leads to fractures/ dislocation/ accidents.
- (ii) Energy.

38. Breast milk is always at the right body temperature. / Breast milk is easily digestible because it has low fat content. / It creates natural love between the baby and the mother/ Breast milk is ever ready.

39. Nuclear family/ Extended family.

40. \* (a) By afforestation/ planting trees/ by mulching plants/ weeding/ pruning/ watering/ applying fertilizers/ manuring.

- (b) (i) Covering food while cooking preserves heat hence less wood fuel is used.
- (ii) Soaking dry food before cooking makes it soft, hence less wood fuel is used for cooking.

41. (a) Health parades are assemblies intended to check children's health and hygiene.

(b) Health parades improves children's cleanliness/ Health parades teaches children to keep clean/ It promotes personal hygiene/ Through checking the body, some diseases can be identified and treated.

(c) Checking the pupils tail fingers and toe nails/ checking whether children comb their hair / checking whether children brush their teeth/ checking whether children's bodies are clean.

42. (a) cotyledon.

(b) Part A

(c)



(d) Hypogaeal germination.

43. (a) levers, screws, inclined planes/slop/pulleys.

(b)



Let the girl's weight be  $y$

Load  $\times$  load arm = effort  $\times$  effort arm

$$y \text{ kgf} \times 6\text{m} = 60\text{kgf} \times 4\text{m}$$

$$y \times 6 = 60 \times 4$$

$$\underline{6y} = \underline{240}$$

$$6 = 6$$

$$y = 40\text{kgf}$$

The girl weighs 40kgf.

44. (a) To prevent lice and bedbugs.

(b) Bathing daily with clean water and soap/ washing dirty clothes/ shaving over grown hair/ brushing teeth every after a meal.

(c) Tooth decay, skin diseases like ringworm infestation, bad body smell, it leads to the spread of some vectors like lice.

45. (a) Sweeping rubbish in the compound/ Burning the rubbish/ Proper disposal of faeces and urine/ mopping the cemented floors/ draining away stagnant water/ slashing tall grass around the compound.

(b) Bilharziasis/ Schistosomiasis

(c) To destroy breeding places for mosquitoes.