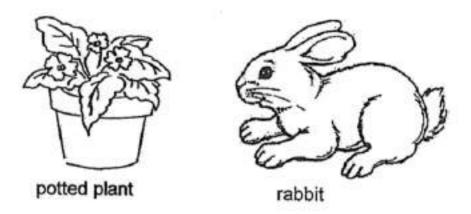
Test:	Primary 3 - Term 4 (SA2) Science (St Nichola	s)	
Points:	56 points		
Name:		Score:	
Date:			
Signature:			
	e choice answers with a cross or tick:		
	t multiple answers		

#### SECTION A (24 x 2 marks)

For each question from 1 to 24, four options are given. One of them is the correct answer.

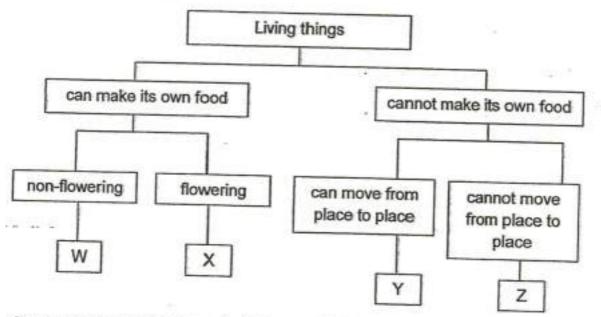
The diagram below shows two living things.



Which of the following statements about the two living things are true?

- A Both can grow.
- B Both can reproduce.
- C Both can respond to changes.
- D Both can make their own food.
- **A)** A and B only
- **B)** C and D only
- C) A, B and C only
- **D)** B, C and D only

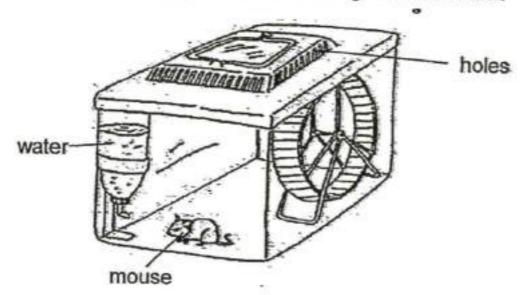
## Study the classification chart below.



Based on the classification chart above, which letter W, X, Y or Z best represents bread mould?

- (A) W
- ( B) X
- OC) Y
- O) Z

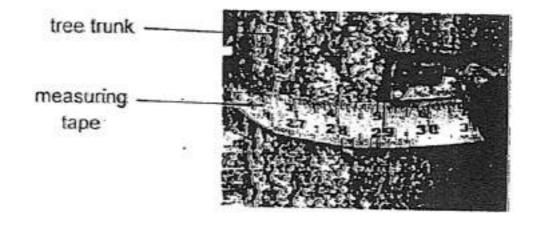
# Joe decided to keep his pet mouse in a cage shown below.



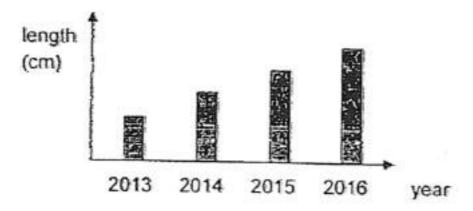
# What should he do to help the mouse to stay alive? .

- A) Give the mouse some air
- **B)** Put some food in the cage
- OC) Add more water in the cage
- OD) Place a few more mice in the cage

## Jack measured the size of a tree trunk in his garden shown below.



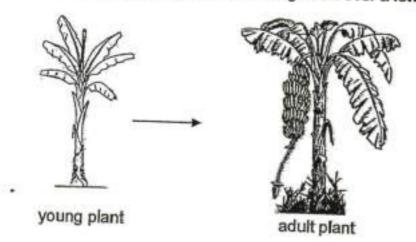
He recorded his results in the bar graph below.



## What can he conclude from his results?

- A) The tree has grown
- B) The tree has reproduced
- OC) The tree has produced flowers
- **D)** The tree has responded to changes

# Sue observed the changes of a plant in her garden over a few years.



# Based only on the diagram above, which one of the following statements is not true?

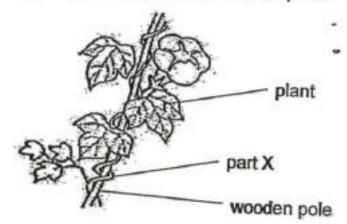
- A) It is a flowering plant
- B) It can make its own food
- OC) It reproduces from spores
- OD) It produces fruits when it becomes an adult

Question 6 of 42

Primary 3 Science (Term 4)

2 pts

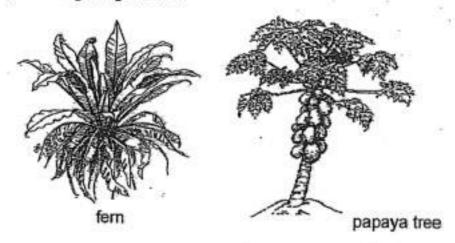
# The diagram below shows a plant growing around a wooden pole.



## What is the function of part X?

- A) To support the stem
- B) To make food for the plant
- C) To absorb water and minerals
- OD) To hold the leaves so that they can get sunlight

#### Study the living things below.



Three pupils Ali, Ben and Cindy made the following statements about the two living things shown above.

Ali: They can make their own food.

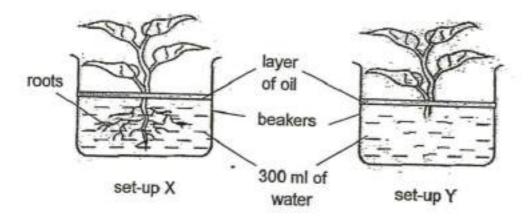
Ben: They have roots, stems and leaves.

Cindy: They do not produce flowers.

## Which of the pupils have made the correct statements?

- **A)** Ali and Ben only
- **B)** Ali and Cindy only
- OC) Ben and Cindy only
- **D)** Ali, Ben and Cindy

Mary carried out an experiment using two similar plants shown below. The plant in set-up Y has its roots removed.



After two days, she recorded her observations in the table below.

Set-up	Amount of water left in the beaker (ml)
Х	250
Y	300

## What does she want to find out from her experiment?

- **A)** To find out if roots take in water
- **B)** To find out if leaves can make food
- C) To find out if plants need water to survive
- OD) To find out if the stem is a weak stem or a strong stem

Max conducted an experiment. He removed only the leaves of a plant shown below. He watered the plant daily.

After a week, he observed that the plant had wilted and died.



Which of the following statement(s) best explain(s) why the plant died?

- A The stem did not have any support.
- B The plant was not able to make food.
- C The plant was not able to absorb water.

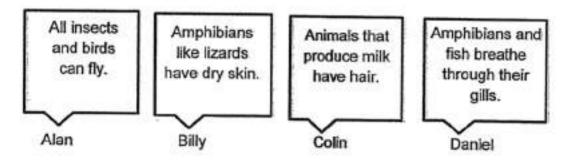
( A)	A only
○ B)	B only
( C)	A and B only
( D)	B and C only

#### Question 10 of 42

Primary 3 Science (Term 4)

2 pts

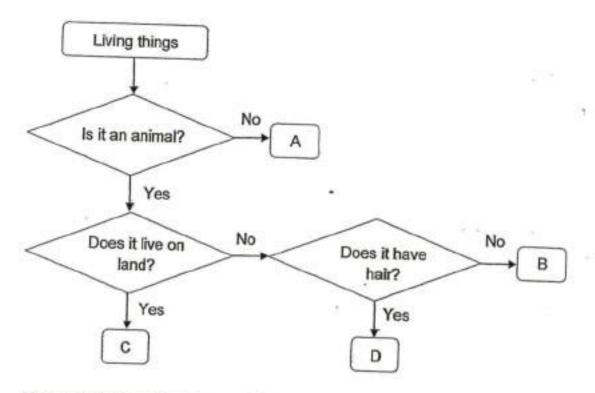
Four pupils Alan, Billy, Colin and Daniel made some statements about some animal groups.



Which one of the following pupils has made a correct statement?

( A)	Alan		
○ B)	Billy		
( C)	Colin		
( D)	Daniel		

## Study the flow chart below.



Based on the flow chart above, which letter A, B, C or D best represents a seal?

- **A**) A
- **○B**) B
- (C) C
- **D**) D

The table below shows how some animals can be grouped.

X	Y		
tilapia	orang-utan		
pelican	elephant		
beetles	bat		

Which of the following are suitable headings for group X and Y?

X	V	
Can fly	Cannot fly	
Lay eggs	Gives birth to the young	
Live on land	Live in water	
Have three body parts	Have two body parts	

- **A)** 1
- **B)** 2
- **C)** 3
- OD) 4

Sandy placed four similar slices of bread A, B, C and D into four similar boxes which were at different temperatures. She observed the growth of bread mould on the four slices of bread over a period of time.

She recorded her observations in the table below.

Bread	Amount of water added (ml)	Temperature in the box (°C)	Number of the days for bread mould to appear on the bread
Α	8 ml	5	12
В	8 ml	10	?
С	8 ml	20	7
D	8 ml	30	4

Based on the table above, how many days would it take for the bread mould to appear on bread B?

- **A**) 4
- **B**) 6
- **C**) 9
- **D)** 13

Jeremy recorded his observations of organism P in the box below.

It cannot make its own food.

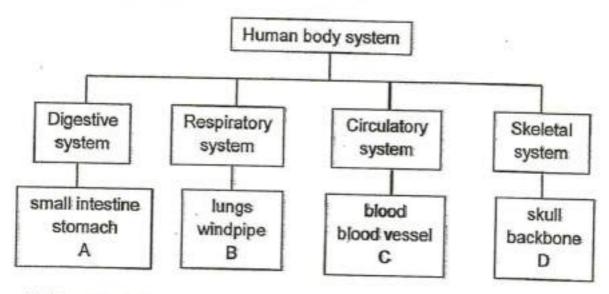
It can be useful or harmful to humans.

It can only be seen under a microscope.

Based on Jeremy's observations, which of the following best represents organism P?

- A bacteria
- B mushroom
- C bracket fungi
- A) A only
- **B)** C only
- OC) A and B only
- OD) B and C only

## Study the classification chart below carefully.



## Which of the following is best represented by letters A, B, C and D?

A	В	C	D
large intestine	gullet	ribcage	muscles
mouth	nose	heart	ribcage
gullet	mouth	muscles	large intestine
anus	mouth	nose "	ribcage

$\bigcirc$ A	\ 1
	,

**B**) 2

**C**) 3

OD) 4

#### Question 16 of 42

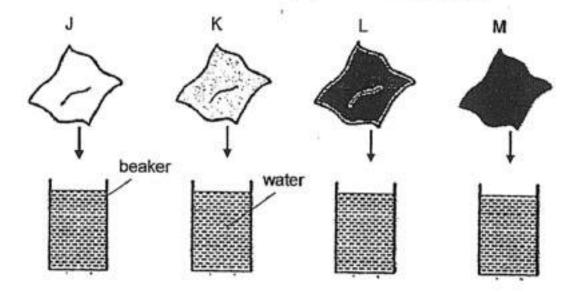
Primary 3 Science (Term 4)

2 pts

Which two systems work together to deliver oxygen to all parts of the body?

- A Respiratory System
- **B** Circulatory System
- C Digestive System
- **D** Skeletal System
- **A)** A and B only
- **B)** A and C only
- C) B and D only
- OD) C and D only

Alvin placed four different materials J, K, L and M of the same size and thickness into four beakers containing equal amounts of water.



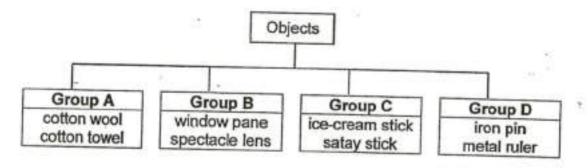
After ten minutes, the materials were taken out of the water and weighed. The results are recorded in the table below.

Material	Mass at the start (g)	Mass after 10 minutes (g)
J	10	16
K	. 10	30
L	10	20
М	10	35

Which material J, K, L or M is most suitable for making a bath towel?

- **A**) J
- ○B) K
- (C) L
- OD) M

### Study the classification chart below.



## Based on the chart above, how were the objects grouped?

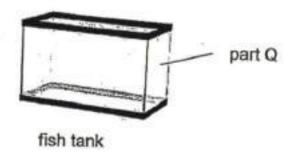
- A) By their size
- **B)** By their transparency
- C) By how they are used
- OD) By the material they are made of

#### Question 19 of 42

Primary 3 Science (Term 4)

2 pts

### The diagram below shows a fish tank.



# Which of the following properties should the material used for part Q of the fish tank have?

- A Flexible
- B Waterproof
- C Transparent
- D Able to float on water
- **A)** A and B only
- B) B and C only
- C) C and D only
- **D)** A, B and D only

Wendy carried out an experiment using four bags A, B, C and D made of different materials. She put apples, one at a time, into each bag until it began to tear. She recorded her observations in the table below.

Bag	Number of apples in the bag before it began to tear
A	10
В	7
С	13
D	5

Based on the results in the table, what does she want to find out from her experiment?

(A (	To find	out	which	bag	is	waterproof
------	---------	-----	-------	-----	----	------------

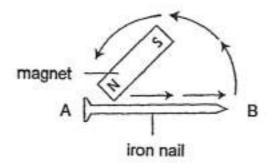
- B) To find out which bag is the strongest
- C) To find out which bag is the most flexible
- To find out which bag allows light to pass through

#### Question 21 of 42

Primary 3 Science (Term 4)

2 pts

Kasper tried to magnetise an iron nail with a magnet using the stroke method in the direction shown below. After stroking the iron nail 15 times, the iron nail attracted three steel pins.

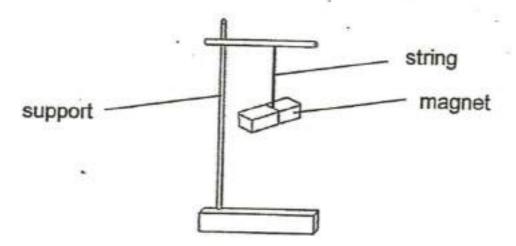


He repeated the experiment with another similar iron nail. What should he do if he wants to attract more than three steel pins?

5 times
5

- B) Stroke the iron nail using the same pole more than 15 times
- C) Stroke the iron nail using the same pole 15 times at a faster speed
- OD) Stroke the iron nail using the both poles of the magnet for 15 minutes each

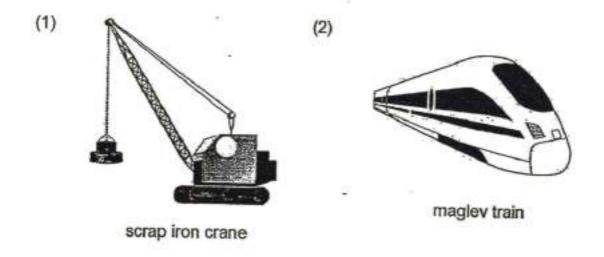
# The diagram below shows a freely suspended magnet.

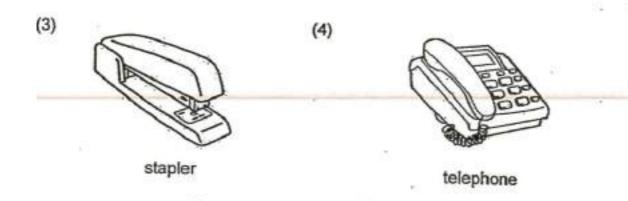


# In which direction will a freely suspended magnet point?

- A) East-West direction
- B) South-East direction
- **C)** West-North direction
- O) North-South direction

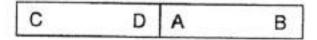
# Study the pictures below. Which of the objects below is not a use of electromagnets?





- **A)** 1
- **B)** 2
- **C**) 3
- OD) 4

Two bar magnets AB and CD can be arranged as shown below.

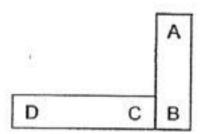


Which of the following arrangements of the magnets is not possible?

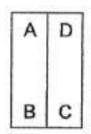
(1)

В	Α
С	D

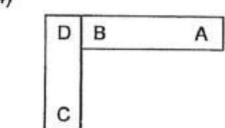
(2)



(3)



(4)



**A)** 1

**B)** 2

**C)** 3

OD) 4

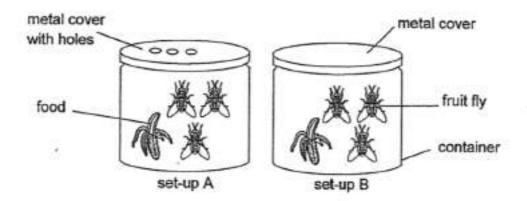
#### **SECTION B**

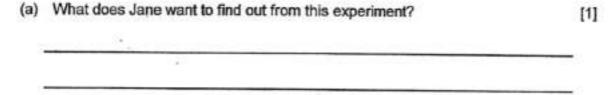
Type your answers clearly in the spaces provided.

This section is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

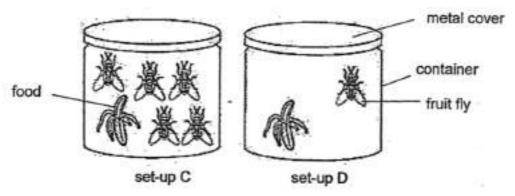
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Jane set up an experiment as shown below. She observed that the fruit flies in set-up B died after two days while the fruit flies in set-up A were still alive.





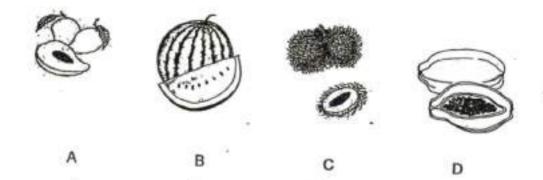
Jane conducted another experiment as shown below.



(b)	In which set-up will the fruit fly/flies live longer? Explain your answer.	[2]
ķ		

[1]

Viknesh bought some fruits as shown below.



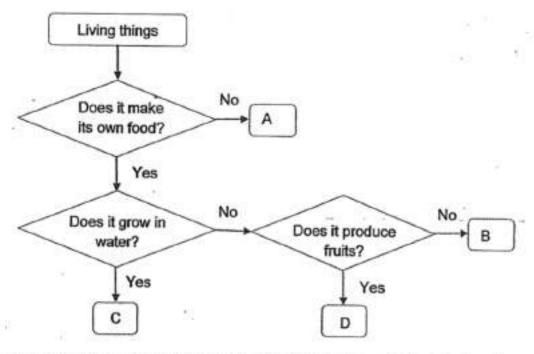
(a) Classify the fruits by writing the letters A, B, C and D in the table below.

One seed	Many	seeds
		200

(b)	Based on the diagram above, state a difference in the texture fruit B and C.	of the skin of	
		2.4	[1]

[2]

The flow chart below shows the classification of four organisms A, B, C and D.



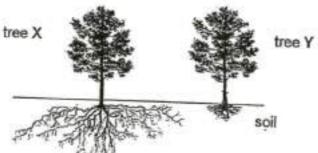
(a) Based on the flow chart above, put a tick (✓) in the boxes below to show the characteristics that organisms C and D have.

Organism	Produce fruits	Makes food	Grow in water
С			
D			

(b) Based on the flow chart above, state a difference between organism A and B. [1]

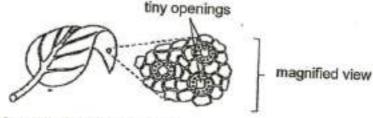
[2]

## Study the roots of trees X and Y as shown below.



(a)	During a storm, answer.	which tree X or Y will more likely be uprooted? Explain your

The diagram below shows some tiny openings on a leaf using a microscope.



(b) State the function of the tiny openings.

[1]

Look at the leaf shown below.

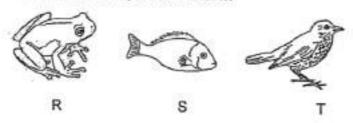


(c) The leaf is observed to have its leaflets spread out without overlapping. Explain how this arrangement of the leaflets help the plant to survive.

[1]

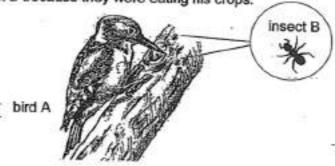
[1]

Look at the animals R, S and T below.

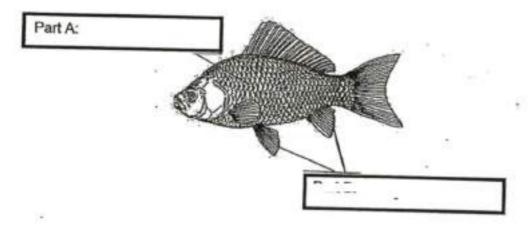


- (a) State one difference in the breathing method of animals R and S in the water. [1]
- (b) State one similarity in the reproduction method of animals R and T. [1]

The diagram below shows bird A. It feeds only on insect B. Farmer Suresh killed many insect B because they were eating his crops.



(c) After a few days, farmer Suresh observed that many bird A also died. Give a reason for his observation. The diagram below shows a fish.



(a) Label the parts of the fish by writing in the boxes provided above.

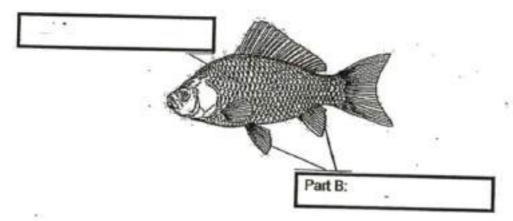
[1]

Question 31 of 42

Primary 3 Science (Term 4)

0.5 pts

. The diagram below shows a fish.



(a) Label the parts of the fish by writing in the boxes provided above.

[1]

					+	
						, v
The diagra	am below st	nows a dolp	hin.			
			2			
	E		The same			
	7.5	~	1	The state of the s		

The diagram below shows some fruits.



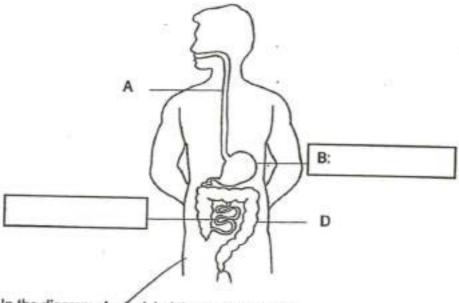




fresh.fruit

)	Gary bought some fish from t	the market. Suggest one possible action Gary
	your answer.	om turning bad quickly. Give an explanation for
	your answer.  Action:	om turning bad quickly. Give an explanation for
	your answer.	om turning bad quickly. Give an explanation for

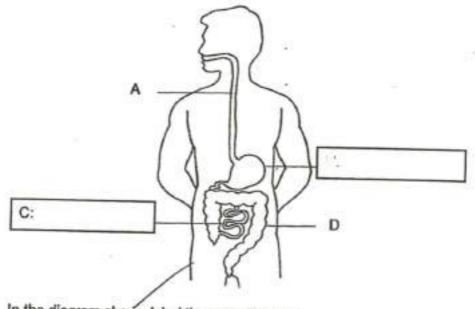
The diagram below shows the human digestive system.



(a) In the diagram above, label the parts B and C.

[1]

The diagram below shows the human digestive system.



(a) In the diagram above, label the parts B and C.

[1]

#### Question 36 of 42

Primary 3 Science (Term 4)

1 pt

[1]

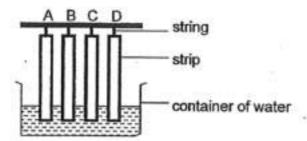
(b) Put a tick (✓) in the table below to show whether digestion takes place at the parts A, B, C and/or D.

Part	Digestion takes place ( )</th
Α	
В	•
С	
D	

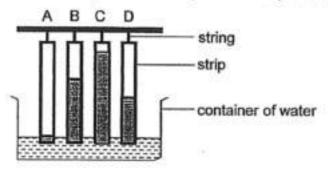
	A)	Α
--	----	---

(c)	State the difference in the substances absorbed by part C and part D.	[1]
	Activity of the Control of the Contr	_

Jordan conducted an experiment to measure the amount of water absorbed by four different materials A, B, C and D. The four strips were of the same size and thickness. He dipped them into a container of water as shown below.



After ten minutes, he observed that the water had risen to different levels along the four strips of materials as shown below. The shaded part on the strips shows the absorption of water by the four strips of materials.



(a) Based on the results shown above, arrange the materials A, B, C and D according to the amount of water it can absorb.

[1]

	absorbs the least water		absorbs the most water
1. [ ]	absorbs the least water	A. D	
2. [ ]	absorbs less water	B. A	
3. [ ]	absorbs more water	C. B	
4. [ ]	absorbs the most water	D. C	

The diagram below shows a mop. (b) Based on the results above, which material A, B, C or D is most suitable for making part X of the mop? Explain your answer. [2] Question 40 of 42 Primary 3 Science (Term 4) 0 pts Shawn set up an electromagnet as shown below. When object X is brought near the iron nail, object X moved closer to the iron nail. batteries iron nait-(a) Shawn concluded that object X is a magnet but his friend said that object X may not be a magnet. Give a reason why. [1] (b) What can Shawn's friend do to show that object X is a magnet? [1]

Shawn carried out another experiment by changing the number of batteries attached to the electromagnet. He placed the electromagnet near some steel pins and recorded his observations in the table below.

Number of batteries	Number of steel pins attracted
2	4
3	6
4	8 *
5	10 -

(c)	Based on the results above, in the table below.	tick (✓)	to indicate i	if the statement(s	) is/are true
	III AND LODIO DOION.				

[1]

( A)	When	the	number	of	batte	eries	increase	d,	the	number	of	stee	l pins	attra	acte	i b	ncrease
0>				_							_						

When the number of batteries increased, the number of steel pins attracted decrease

OC) When the number of batteries increased, the number of steel pins attracted remain the same

#### Question 42 of 42

Primary 3 Science (Term 4)

0 pts

(d) Shawn replaced the steel pins with copper pins. He observed that no copper pins were attracted by the electromagnet. Give a reason for his observation.

[1]