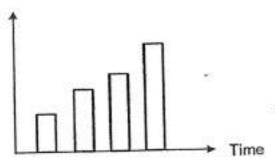
Test:	Primary 4 - Term 4 Science (Maris Stella	a)	
Points:	83 points		
Name:	<u> </u>	Score:	
Date:			
Signature:			
Select mult	iple choice answers with a cross or tick:		
Only se	lect one answer		
Can sel	ect multiple answers		
Ougation	1 of 72	Primary 4 Science (Term 4)	2 pts
	(28 x 2 marks)		
Booklet A For each o			et er
Booklet A For each o	(28 x 2 marks) juestion from 1 to 28, four options are gi		
Booklet A For each of answer. An earth	(28 x 2 marks) juestion from 1 to 28, four options are gi	ven. One of them is the correc	
Booklet A For each of answer. An earth	(28 x 2 marks) puestion from 1 to 28, four options are given worm coils itself up when touched.	ven. One of them is the correc	
Booklet A For each of answer.  An earth  This sho	(28 x 2 marks) puestion from 1 to 28, four options are given worm coils itself up when touched.	ven. One of them is the correc	
Booklet A For each of answer.  An earth  This sho	(28 x 2 marks) Juestion from 1 to 28, four options are given when touched.  The second strength of the second stre	ven. One of them is the correc	

Nancy observed the larva of an insect over three weeks. She measured the length of the larva and plotted the graph shown below.

Length of the larva (cm)



Which characteristics of living things is shown from the above results?

- **A)** Living things die
- **B)** Living things grow
- **C)** Living things reproduce
- D) Living things need air, food and water to survive

The table below shows the characteristic(s) of organisms A, B and C. A tick (<) indicates that the characteristic is present.

101		
/	-	C
	-	
-	-	
		7

Which one of the following is correct?

В	C
frog	butterfly
	frog
	cockroach butterfly
	frog butterfly frog cockroach

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

# Which one of the following comparisons between fungi and non-flowering plants is correct?

on-flowering plant
n be seen without a
produces from seed:
make its own food

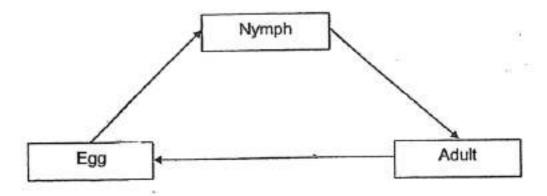
- **A)** 1
- **B)** 2
- **C**) 3
- OD) 4

### Question 5 of 72

Primary 4 Science (Term 4)

2 pts

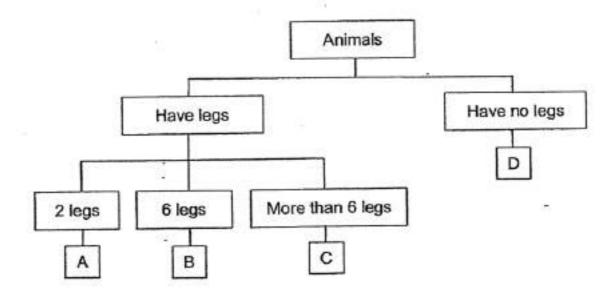
The diagram below shows the life cycle of an animal.



Which animal is likely to have the life cycle as shown above?

- A) frog
- B) chicken
- O) butterfly
- O) cockroach

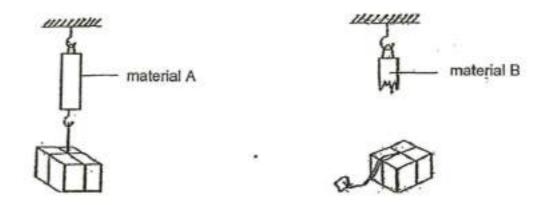
# Study the classification chart below.



Which animal is most likely an insect?

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

Two identical boxes were hung on material A and material B. The strip of material B broke after the box was hung on it.



Based on the observation above, what can we conclude about materials A and B?

- A) Material A is stronger than Material B
- B) Material B is stronger than Material A
- C) Material A is more flexible than Material B
- **D)** Material B is more flexible than Material A

Which one of the following objects can be bent easily without breaking?

( A)



A sheet of glass

( B)



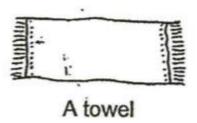
A wooden spoon

( C)



# A metal ruler

( D)



Question 9 of 72

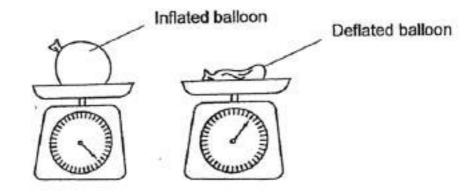
Primary 4 Science (Term 4)

2 pts

Which one of the following is true for both air and water?

- A) They can be seen
- B) They take up space
- C) They have fixed shapes
- O) They have fixed volumes

# Sally set up an experiment as shown below.



# What is the aim of her experiment?

( A) □	Го	find	out	if	air	has	mass
--------	----	------	-----	----	-----	-----	------

- **B)** To find out if air has volume
- OC) To find out if air can be compressed
- OD) To find out if air has a definite shape

### Question 11 of 72

Primary 4 Science (Term 4)

2 pts

Matter is anything that has mass and occupies space. Which one of the followings is not matter?

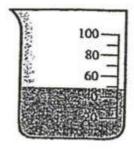
- A) air
- B) oil
- C) light
- O) stone

Bala was asked to measure the volume of a marble. Which of the apparatus show below should be use to get a more accurate reading?

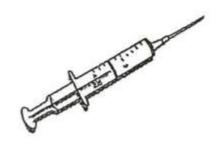




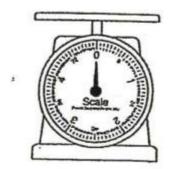
( B)



( C)



O D)



Which one of the following is a source of light?





a mirror

( B)



a shadow

( C)

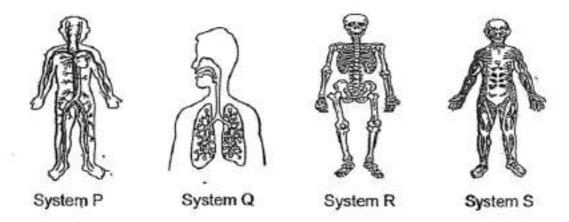


( D)



moon

# The diagrams below show the human body systems.



Which of the following body systems carries substances to all parts of our body?

( A)	Р
○ B)	Q
( C)	R
( D)	0

### Question 15 of 72

Primary 4 Science (Term 4)

2 pts

In which part of the digestive system is digested food absorbed into the blood?

( A)	Gullet
○B)	Stomach
() C)	Small intestine
( D)	Large intestine

### Question 16 of 72

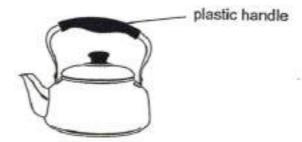
Primary 4 Science (Term 4)

2 pts

Which one of the following is the function of a leaf of a plant?

A) makes foodB) takes in waterC) holds plant uprightD) takes in mineral salts

Noah boiled some water in the kettle shown below.



	s able to hold the kettle of hot water tic is a	using 	the plastic	handle	because	
) A)	flexible material					
) B)	lightweight material					
) C)	poor conductor of heat					

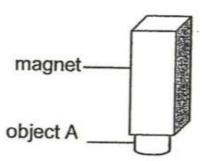
Question 18 of 72

O) good conductor of heat

Primary 4 Science (Term 4)

2 nte

Object A was attracted to a magnet as shown in the figure below.



Which of the following could object A be made of?

$\bigcirc$ A	steel
-	

- B) wood
- OC) plastic
- O) rubber

In which direction will a freely-suspended magnet come to rest?				
() A)	East-West			
○B)	South-East			
( C)	North-South			

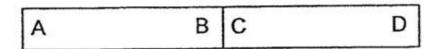
Primary 4 Science (Term 4)

2 pts

Question 19 of 72

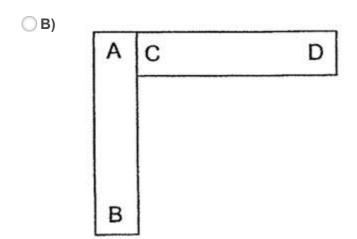
OD) North-West

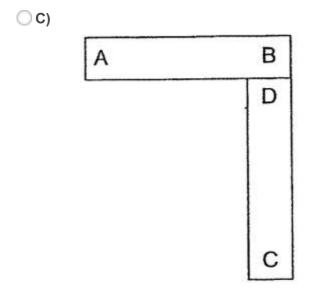
Dylan arranged two magnets AB and CD as shown below.

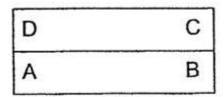


Which one of the following arrangements is possible?

В
D





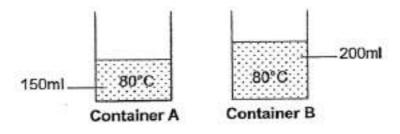


### Question 21 of 72

Primary 4 Science (Term 4)

2 pts

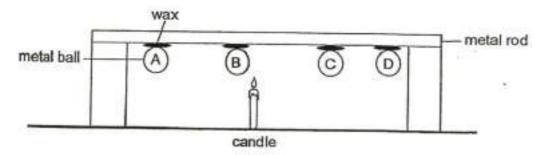
The diagram below shows two identical containers filled with different amounts of water at the same temperature.



Which of the following statements is true?

- A) A has more heat than B
- **B)** B has more heat than A
- OC) B has a higher temperature than A
- **D)** A and B have the same amount of heat

! Ali stuck four metal balls, A, B, C and D, to a metal rod using equal amounts of wax. A lit candle was placed below the metal rod as shown in the diagram.



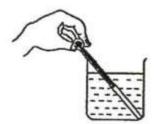
The metal balls will fall off the metal rod when the wax melts.

Which of the following metal balls will fall off first?

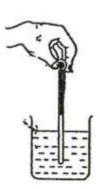
- (A) A
- **○B**) B
- (C) C
- **D**) D

Cathy wants to measure the temperature of hot water in a beaker. Which one of the following diagrams shows the correct position of the thermometer when taking the temperature reading?

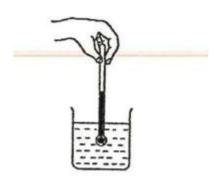




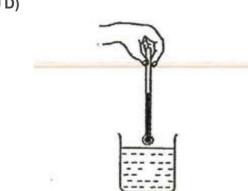
( B)



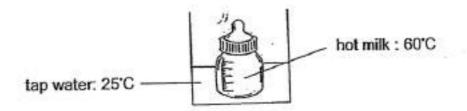
( C)



( D)



Jack's mother put the bottle of hot milk into a basin of tap water to cool it down.



The temperature of the milk after 5 minutes will likely be \_\_\_\_\_

( ) ( )	20°C
	/() (,

- B) 38°C
- **C**) 60°C
- OD) 85°C

Question 25 of 72

Primary 4 Science (Term 4)

2 pts

Hannah tested the magnetic strength of the 4 electromagnets and recorded the results in the table below.

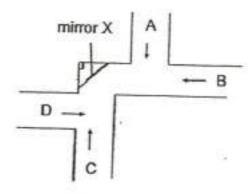
Electromagnet	Number of coils of wire	Number of paper clips attracted ,
w	6	1
x	13	3
Y	22	5
Z	35	9

What can Hannah conclude from the results above?

O A)	W has	not been	magnetised
------	-------	----------	------------

- **B)** Y is the strongest electromagnet
- C) The more coils of wire the weaker the magnetism
- The more coils of wire the stronger the magnetism

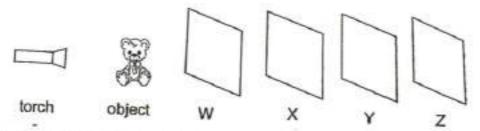
The diagram below shows four boys, A, B, C and D, walking from different directions.



Which two boys can see each other in mirror X?

- A) A and C
- **B**) B and D
- OC) A and D
- OD) B and C

Samuel carried out the following experiment in a dark room. He arranged sheets W, X, Y and Z in a straight line and placed an object in front of the torch.



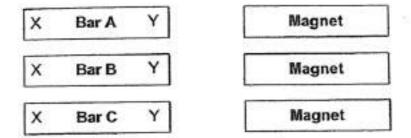
He switched on the torch and a shadow of the object was formed on sheet Y.

Which of the following about the properties of sheets W, X, Y and Z is correct?

(4)	Allow most light to pass through	Do(es) not allow light to pass through
(1)	W and X	Y
(2)	W and X	Z
(3)	Υ	W and X
(4)	Z	W and X

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

Kate has three bars, A, B and C. She carried out an experiment by placing a magnet near each of these bars. X and Y shows the ends of the bars.



Kate recorded her observations in the table below.

Bar	Observations
А	X is attracted to both poles of the magnet. Y is attracted to both poles of the magnet.
В	X is attracted to one pole of the magnet. Y repelled one pole of the magnet.
С	Both X and Y are not attracted by the magnet

Which of the following statements about bar A, B and C is correct?

- **A)** Both bars A and B are magnets
- B) Bar C can be made into a magnet
- OC) Bar A cannot be made into a magnet
- OD) Both bars A and B are made of magnetic materials

### **Booklet B**

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.

Study the table below.

w	X
tiger	stone
ant	cloth
mushroom	pen

(a)	What are the suitable headings for W and X?	[2]
	Group W:	

Question 30 of 72	Primary 4 Science (Term 4)	1 pt
Group X:		

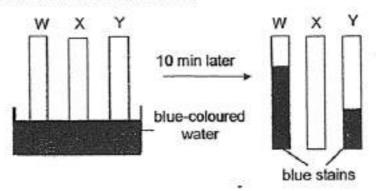
Question 31 of 72	Primary 4 Science (Term 4)	1 pt

Would you place yeast in group W or group X?

- **A)** W
- ○B) X

Match the options below:

An experiment was conducted to find out the absorbency of 3 materials, W, X and Y. The results are as shown below.



Arrange materials W, X and Y starting from the most absorbent material. [1]

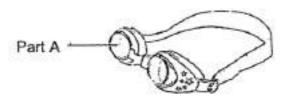
1. [ ]	Most absorbent	Α.	Υ
2. [ ]	absorbent	В.	W
3. [ ]	Least absorbent	C.	X

### Question 33 of 72

Primary 4 Science (Term 4)

1 pt

Swimmers wear goggles to allow them to see clearly underwater.



(b) Which material, W, X or Y, is most suitable to make part A of the goggles? [1]

- (A) W
- B) X
- (C) Y

### Question 34 of 72

Primary 4 Science (Term 4)

0 pts

Based on the results of the experiment, give a reason for your answer in (b)

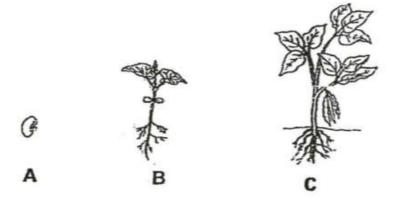
State another property of material that part A must have to allow the swimmer to see clearly underwater

Question 36 of 72

Primary 4 Science (Term 4)

1 pt

The diagram below shows the stages in the life cycle of a plant.



Choose the correct words from the box to answer question 31 (a).

egg	seed	young plant	adult plant

Name stages A and B in the life cycle of the plant.

A) egg
B) seed

A:\_\_\_\_

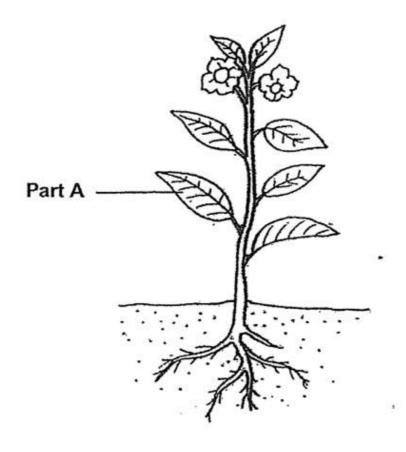
C) young plant

**D)** adult plant

B:  A) egg B) seed C) young plant D) adult plant  Question 38 of 72  Primary 4 Science (Term 4) 0 pt  (b) Draw the life cycle of the plant using letters A, B and C.  [1]	Question 37 of 72	Primary 4 Science (Term 4) 1
B) seed C) young plant D) adult plant  Question 38 of 72  Primary 4 Science (Term 4) 0 pt	B:	
C) young plant D) adult plant  Question 38 of 72  Primary 4 Science (Term 4) 0 pt	OA) egg	
Question 38 of 72 Primary 4 Science (Term 4) 0 primary 4 Science (Term 4)	○B) seed	
Question 38 of 72 Primary 4 Science (Term 4) 0 pt		
(b) Draw the life cycle of the plant is a true of true of the plant is a true of true of the plant is a true of tr	OD) adult plant	
(b) Draw the life cycle of the plant using letters A, B and C. [1]	Ouestion 38 of 72	
	•	
at 1	•	
	•	
	•	

Please type "done" to proceed to the next question

# The diagram below shows a plant.



# Name plant part A.

# Question 40 of 72

Primary 4 Science (Term 4)

1 pt

Name one substance that the roots of the plant take in from the soil.

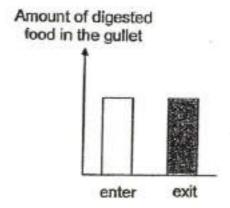
Besides taking in substances from the soil, state another function of the roots

### Question 42 of 72

Primary 4 Science (Term 4)

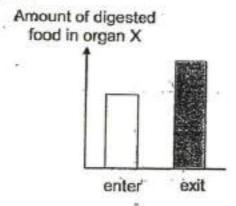
0 pts

The graph below represents the amount of digested food entering and exiting the gullet.



Why was there no change in the amount of digested food entering and exiting the gullet?

Study the graph below.



Circle the correct answer.

The amount of digested food exiting organ X was (more than/ less than/ the same as) the amount of food entering it.

[1]

- A) more than
- **B)** less than
- C) the same as

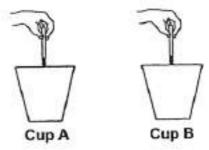
Question 44 of 72

Primary 4 Science (Term 4)

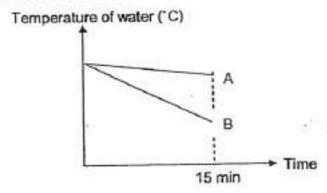
1 pt

What could organ X be?

All conducted an experiment to find out which cup is made of a better conductor of heat. He poured the same amount of hot water into each cup and measured the temperature of the water over a period of 15 minutes.



The graph below shows his results.



Which cup, A or B is made of a better conductor of heat?

[1]

- **A**) A
- **○B)** B

# Question 46 of 72

Primary 4 Science (Term 4)

0 pts

Give a reason for your answer in (a)

#### Question 47 of 72

Primary 4 Science (Term 4)

0.5 pts

Indicate the heat transfer between the hot water and the cup when hot water was poured into the cup:

Cup:\_\_\_\_

- A) Heat gain
- **B)** Heat loss

Hot water	n 48 of 72	Primary 4 Science (Term 4)	0.5 pts
not water.	<u> </u>		
<b>A)</b> He	eat gain		
<b>○B)</b> He	eat loss		
Questio	n 49 of 72	Primary 4 Science (Term 4)	1 pt
A meta	I ring was heated over the fla		
		metal ring flame	1
Will the	e size of the metal ring inc	rease, decrease or remain the same after	
Will the	e size of the metal ring inco	rease, decrease or remain the same after [1]	
heating	e size of the metal ring incom?		
heating  A) inc	)?		
A) inc	crease		

C) strong

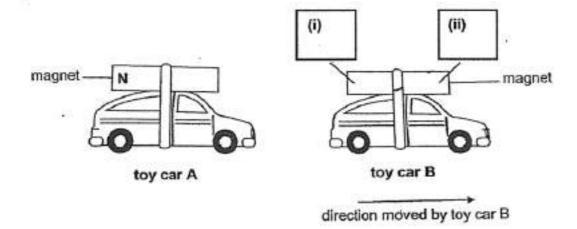
Two pots were stuck together as shown together.



В		
Which pot, A or B, should be heated so the easily?	at the pots can be separated r	nore [1]
○ A) A ○ B) B		
Question 52 of 72	Primary 4 Science (Term 4)	1 pt
Pots are usually made of metal because metal is a _	conductor of heat	
Question 53 of 72	Primary 4 Science (Term 4)	1 pt
Sarah places a magnet near an iron rod. The i	ron rod moves towards the mag	net.
The magnet exerts a	on the iron rod.	[1]
Question 54 of 72	Primary 4 Science (Term 4)	1 pt

Question 54 of 72	Primary 4 Science (Term 4)	1 pt
Sarah's observation shows that iron is a material.		
A) flexible		
○ B) magnetic		

Sarah placed toy cars A and B next to each other as shown in the diagram below.



She observed that toy car B moved away from toy car A.

(c) The N-pole of the magnet on car A has been labelled. Label the poles of the magnet on car B with letters 'N' and 'S' in the diagram above. [1]

Question 56 of 72

Primary 4 Science (Term 4)

1 pt

### Study the table below.

Set-up	Number of batteries	Number of coils of wire	Number of paper clips attracted
P	1	15	10
Q	1	20	20
R	2	15	25

Joan wants to find out if the number of batteries affects the magnetic strength of the electromagnet.

Which two set-ups should she choose?

[1]

- **□A)** P
- **B**) Q
- □ C) R

### Question 57 of 72

Primary 4 Science (Term 4)

0 pts

What is the relationship between the number of batteries and the number of paper clips attracted by the electromagnet?

# Question 58 of 72

Primary 4 Science (Term 4)

0 pts

Besides changing the number of batteries, what its another way to increase the magnetic strength of the electromagnet?

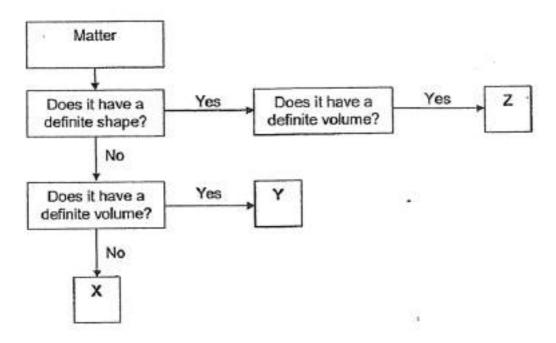
### Question 59 of 72

Primary 4 Science (Term 4)

0 pts

State another method to make a temporary magnet

### Study the flow chart below.



Which letter, X, Y or Z, represents the following states of matter?	[2]
Solid:	

- **A)** x
- **ОВ)** у
- (C) z

### Question 61 of 72

Primary 4 Science (Term 4)

1 pt

Liquid:\_\_\_\_

- **A)** X
- **○ B**) y
- (C) z

### Question 62 of 72

Primary 4 Science (Term 4)

0 pts

state one similarity between X and Y

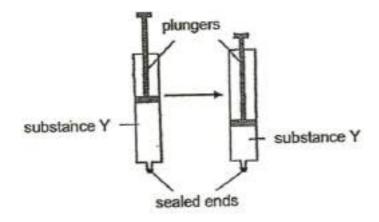
State one difference between Y and Z

### Question 64 of 72

Primary 4 Science (Term 4)

1 pt

Tom filled a syringe with substance Y and sealed the end of the syringe to stop substance Y from coming out. The diagram below shows what happens when the plunger is pushed into the syringe.



) Based on the observation above, what is the state of matter-of substance Y?
[1]

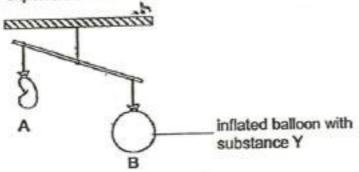
Question 65 of 72

Primary 4 Science (Term 4)

0 pts

Based on the observation above, state one property of substance Y

Tom conducted another experiment with substance Y as shown below.



It was observed that B moved downwards.

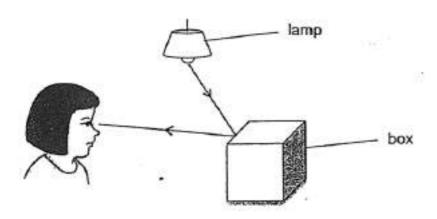
c) Based on his observation, what can you conclude about substance Y? [1]

Question 67 of 72

Primary 4 Science (Term 4)

2 pts

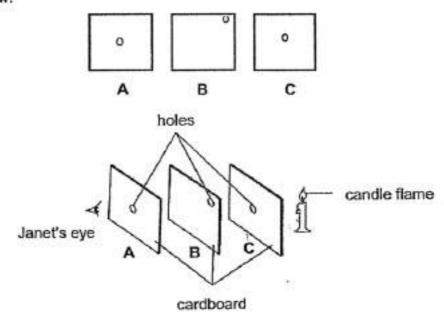
The diagram below shows how Janet sees the box.



The\_\_\_\_\_\_from the lamp is \_\_\_\_\_\_by the box and enters

Janet's eye. [2]

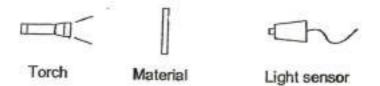
Janet made some holes in three pieces of cardboard and arranged them as shown below.



(b) Janet could not see the flame from where she is. Which property of light does this show?

[1]

Edward conducted an experiment as shown below.



 The amount of light detected by the light sensor when different materials were placed between the torch and the light sensor is recorded below.

Material	No material	X	Υ	7
Amount of light detected (lux)	500	200	0	

Based on the results, state the properties of materials X and Y.

[2]

Material X:			

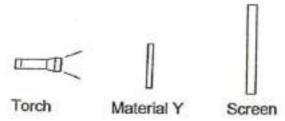
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Primary 4 Science (Term 4)

1 pt

Material Y:\_\_\_\_

Material Y is placed between a torch and the screen as shown in the diagram below.



What will Edward observe on the screen when the torch is switched on?

[1]

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0 pts

Without moving the screen and torch, how can Edward make the shadow bigger?