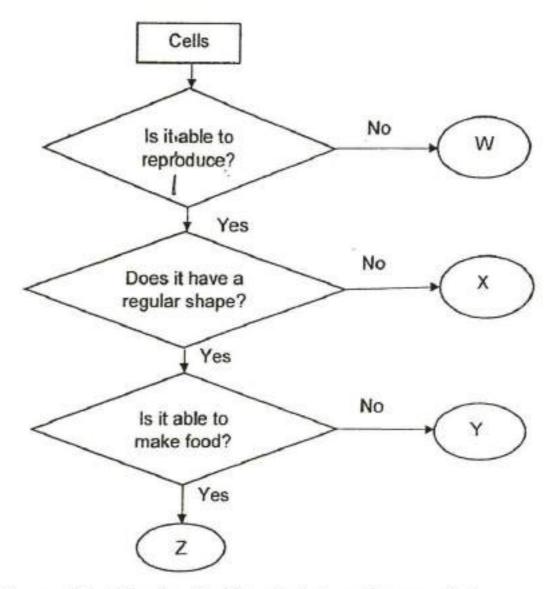
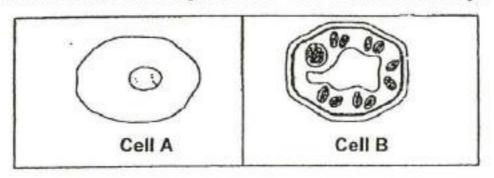
Test:	Primary 5 Science (Term 4) - Rosyth	
Points:	65 points	
Name:		Score:
Date:		
Signature:		
Select multiple	e choice answers with a cross or tick:	
Only selec	ct one answer	
Can selec	t multiple answers	

For each question, four options are given. One of them is the correct answer. Make your choice (A, B, C or D) and choose the correct answer. (56 marks)

## Study the flowchart below.



Which one of the following identifies Cells A and B correctly?



() A)	Cell A	Cell B
	W	Z
○ B)		

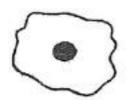
	Cell A	Cell B
	Χ	Υ
(C)	Cell A	Cell B
	Υ	Z
O D)	Cell A	Cell B
	Χ	Z

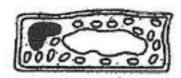
Question 2 of 62

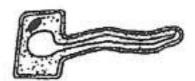
Primary 5 Science (Term 4)

2 pts

## Study the three different cells below.



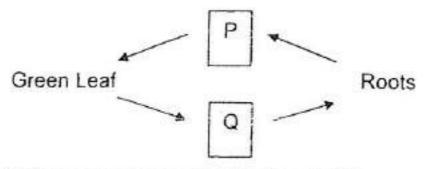




### Which of the following statements is true for all the three cells?

- A) They can make food.
- **B)** They are animal cells.
- **C)** They have a nucleus and cell membrane.
- OD) They contain cytoplasm and have cell wall.

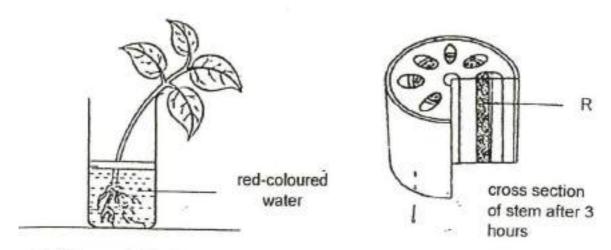
## Study the diagram below.



# Which of the following correctly represents P and Q?

_				
( A)	P	Q		
	water carrying tube	water carrying tube		
○B)	P	Q		
	water carrying tube	food carrying tube		
( C)	Р	Q		
	food carrying tube	food carrying tube		
O D)	P	Q		
	food carrying tube	water carrying tube		

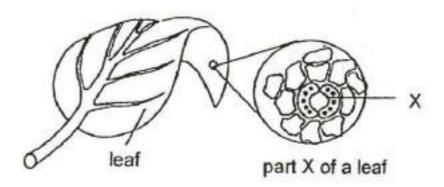
A plant was placed in a beaker of red-coloured water. After a few hours, a cross section of the stem was cut out and part R was observed to be stained red.



Which one of the following statements describes why part R was stained red?

- (A) Water was carried from the leaves to the root.
- Sugar was carried from the leaves to the roots.
- C) Sugar was carried from the roots to the leaves.
- **D)** Water was carried from the roots to the leaves.

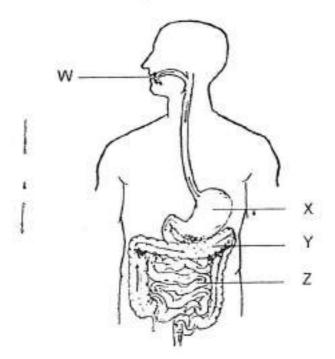
## The diagram below shows part X of a leaf.



# Which one of the following statements is correct about X?

- **A)** Sunlight is trapped by part X.
- **B)** Gaseous exchange occurs at X.
- Only water vapour is lost through part X.
- Only carbon dioxide is taken in through part X.

### The diagram below shows the parts of a human digestive system.



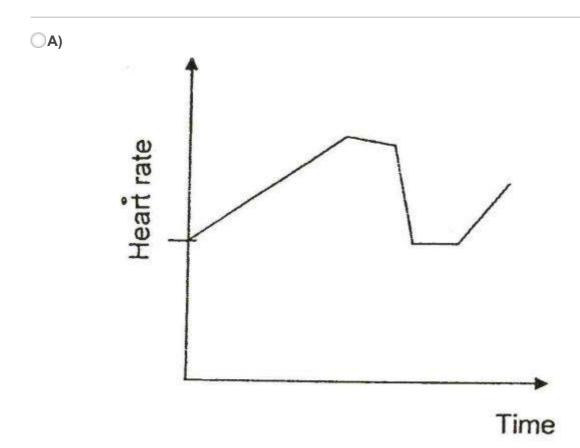
Which one of the following statements about the digestive system is correct?

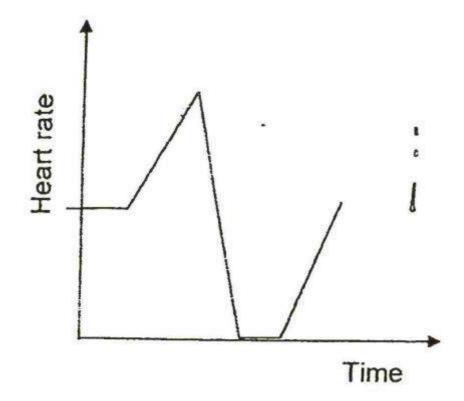
- **A)** Digestion of food ends at X.
- B) Digestion of food begins at W.
- OC) Digestive juices are produced at W, X and Y.
- **D)** Water is removed from undigested food at Z.

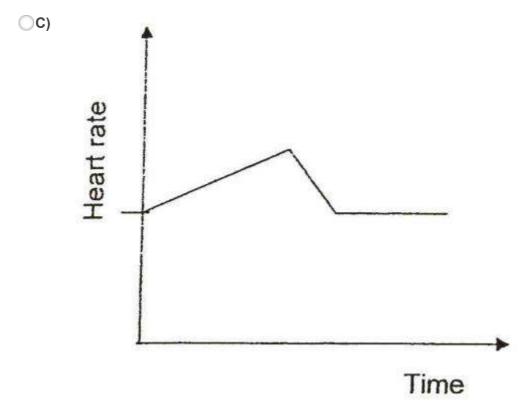
(B)

Joel went for his morning exercise. He ran to the entrance of a park. Then, he took a brisk walk in the park before resting on a bench. After that, he decided to run home.

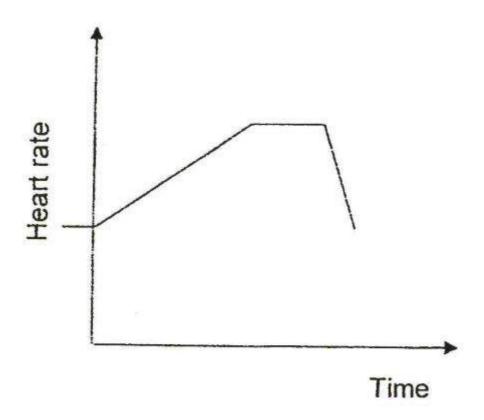
Which one of the following graphs shows the changes in Joel's heart rate from the time he left his house to the time he reached home?



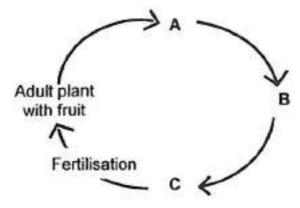




(D)



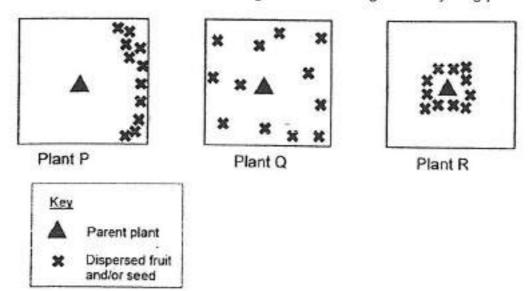
The diagram below shows the developmental stages of a flowering plant and the point at which fertilisation occurs.



Which one of the following shows the correct stages?

( A)	Α		В			С	
	young	plant	plant adult with flow			seed	
○ B)	Α	ВС					
· -/	A	D	C				
	seed	young	plant adult with f			lowers	
00				_			
() C)	Α			В		С	
	adult	with flo	owers young plant			seed	
() D)		<u> </u>				-	
( D)	Α	В	С		С		
	seed	adult v	vith flo	wers	young	plant	

Three different types of plants, P, Q and R, dispersed their fruits and/or seeds on land as shown below. The seeds germinated and grew into young plants.



Which one of the following are likely characteristics of the fruits and /or seeds of the plants?

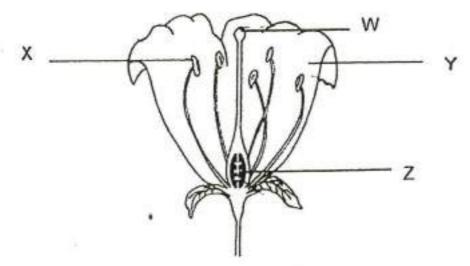
( A)	Plant P		Pla	ant Q	Plant R				
	wing-like	structure	stif	ff hairs	splits op	en wh	en ri	ipe	
○B)	Plant P			Plant	Q		Pla	nt R	2
	splits ope	n when r	ipe	bright	y-coloured	d fruit	drie	es wl	hen ripe
() C)	Plant P		Pla	nt Q	Plant R				
	pod-like s	tructure	stiff	hairs	wing-like	struct	ure		
(D)	Plant P	Plant Q		Plan	t R				

fibrous husk

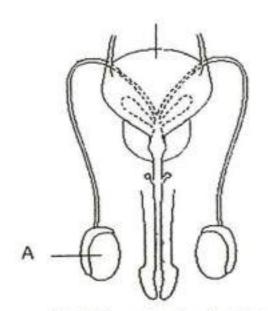
stiff hairs

wing-like structure

# The diagram below shows a plant and human reproductive system



Plant Reproductive System



Male Reproductive System

Which part X, Y, W or Z, has the same function as part A?

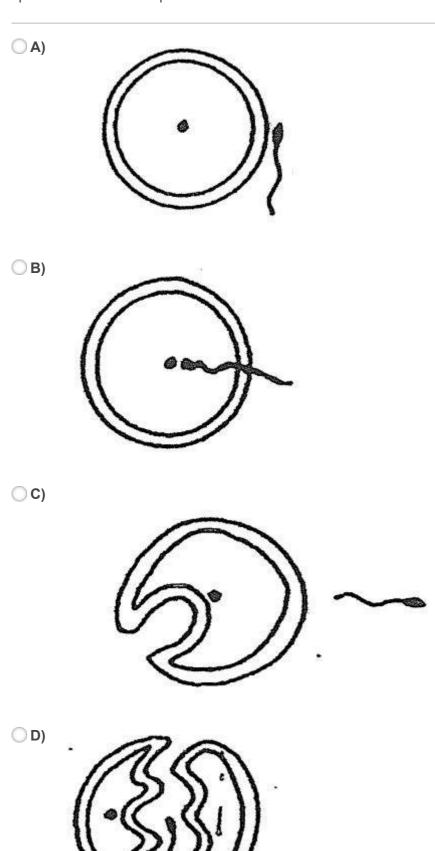
<sup>(</sup>A) X

<sup>○</sup>B) Y

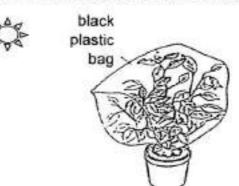
<sup>(</sup>C) W

<sup>(</sup> D) Z

Which one of the following diagram correctly shows that fertilisation of a human egg by a sperm is about to take place?



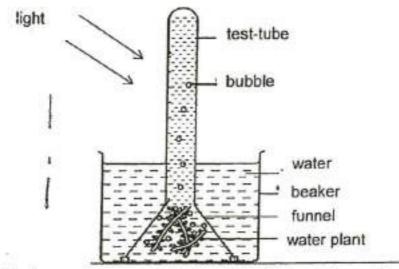
Susie put a well-watered plant into a black plastic bag. Then she tied the bag with a string and placed it under the Sun for several hours.



Which one of the following shows the changes in the amount of oxygen and carbon dioxide in the bag during that period of time?

_		
( A)	Amount of Oxygen	Amount of Carbon Dioxide
	Increased	Increased
0		
○ B)	Amount of Oxygen	<b>Amount of Carbon Dioxide</b>
	Decreased	Decreased
0		
() C)	Amount of Oxygen	<b>Amount of Carbon Dioxide</b>
	Increased	Decreased
( D)	Amount of Oxygen	<b>Amount of Carbon Dioxide</b>
	Decreased	Increased

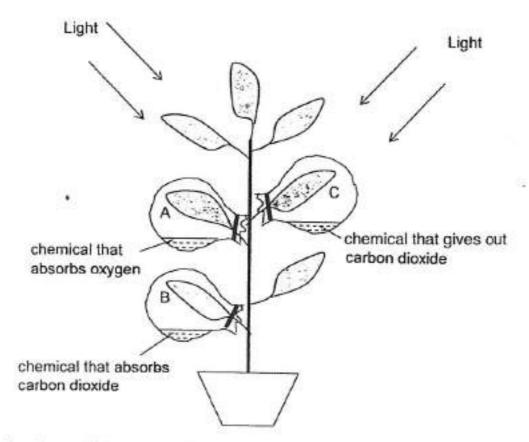
Phyllis carried out an experiment to find out about the relationship between the colour of light and the rate of photosynthesis. The diagram below shows her set-up.



Which of the following must she record at the end of the experiment for her results?

- **A)** Intensity of light
- **B)** Volume of water in the beaker
- C) Amount of oxygen collected in the test tube
- **D)** Amount of carbon dioxide bubbles in the test tube

Ruby wanted to conduct an experiment on photosynthesis. Before she started her investigation, she left a plant in a dark cupboard for 48 hours. She then set up her experiment in the garden as shown below.

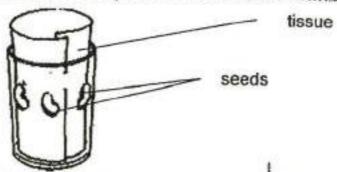


After four hours. Ruby removed leaves A, B and C, and conducted a starch test on the leaves. Iodine is a brown liquid that turns dark blue in the presence of starch.

Which one of the following sets of results would she most likely obtain?

( A)	Leaf A	Leaf B	Leaf C
	It turned dark blue.	It turned dark blue.	It remained brown.
○ B)	Leaf A	Leaf B	Leaf C
	It turned dark blue.	It remained brown.	It turned dark blue.
( C)	Leaf A	Leaf B	Leaf C
	It remained brown.	It turned dark blue.	It remained brown.
( D)	Leaf A	Leaf B	Leaf C
	It remained brown.	It remained brown.	It turned dark blue.

Halim prepared three set-ups similar to the one shown below.



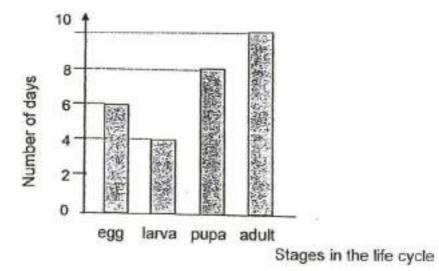
He prepared the three set-ups according to the table shown below.

Set-up	Presence of Water	Place
E	Yes	Refrigerator
F	Yes	Near Window
G	No	Refrigerator

Which one of the following is a possible aim of his experiment?-

- A) To find out if seeds need air to germinate
- B) To find out if seeds need water to germinate
- OC) To find out if seeds need warmth to germinate
- Op) To find out if seeds need warmth and water to germinate

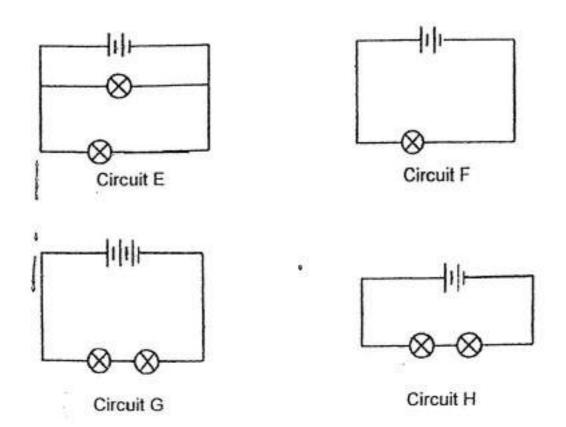
The graph below shows the duration of each stage of the life cycle of an organism.



Based on the graph above, at what stage of development will the organism be on the 5<sup>th</sup> day after it has hatched?

- **A)** egg
- **B)** larva
- OC) pupa
- O) adult

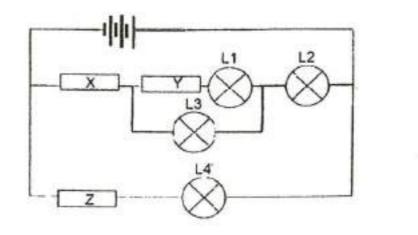
# Miguel set up four electrical circuits as shown below.



Which of the following set-ups correctly match the experimental aim?

( A)	Set-ups	Experimental aim					
	E and G	To find out how the number of bulbs affects the brightness of the bulbs					
○ B)	Set-ups	Experimental aim					
	E and H	To find out how the arrangement of bulbs affects the brightness of the bulbs					
() C)	Set-ups	Experimental aim					
	F and G	To find out how the number of bulbs affects the brightness of the bulbs					
O D)	Set-ups	Experimental aim					
	F and H	To find out how the arrangement of bulbs affects the brightness of the bulbs					

Three rods, X, Y and Z, of unknown materials were placed in the circuit below,



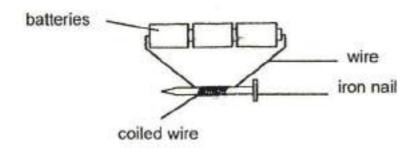
The only light bulbs that lit up were L2, L3 and L4.

Which one of the following shows the most likely materials used for each rod?

( A)	Χ	Υ	Z
	Steel	Glass	Copper

- Glass Copper Wood
- C) X Y Z
  Glass Wood Copper
- Steel Copper Copper

## The diagram below shows an electromagnet.

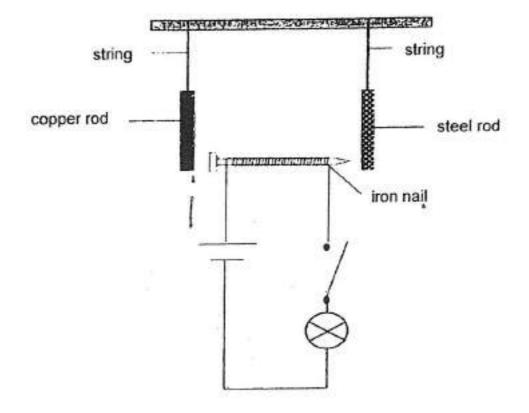


## Which of the methods below will increase the strength of the electromagnet?

( A)	Increase	the	length	of	wire	used
_ /						

- OB) Change the iron nail to a plastic nail
- OC) Change the direction of the batteries
- OD) Increase the number of wire coils around the iron nail

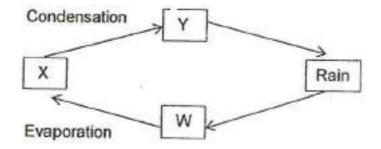
An iron nail was placed near a copper rod and a steel rod as shown in the setup below.



Which of the following is/are observed when he closes the switch?

- A: The bulb lights up.
- B: The steel rod moves towards the iron nail.
- C: The copper rod remains at the same position.
- D: Both the steel rod and copper rod will move towards the iron nail.
- **A)** A and D only
- B) B and C only
- C) C and D only
- OD) A, B and C only

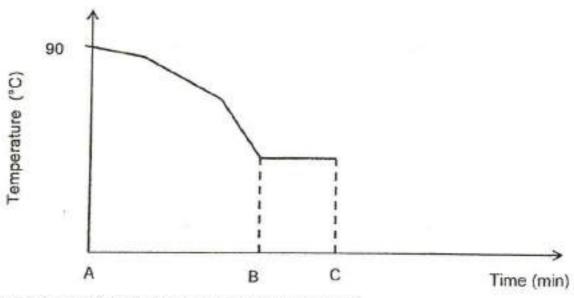
The diagram below shows the water cycle. The arrows show the different stages of water in motion.



In which stage(s), X, Y or W, in the water cycle does water exist in the liquid state?

- A) Wonly
- **B)** W and Y only
- C) X and Y only
- OD) W, X and Y

The graph below shows the changes in the temperature of a bowl of water at 90°C which was left on the table over a period of time.



Which one of the following statements is correct?

- A) Water freezes from B to C.
- B) Water loses heat from B to C.
- C) Evaporation takes place from A to C.
- **D)** A change in state of water takes place only at B.

#### Question 23 of 62

Primary 5 Science (Term 4)

2 pts

The table below shows the melting points and boiling points of substances P, Q, R and S.

Substance	Melting Point (°C)	Boiling Point (°C)
P	48	189
Q	20	115
R	5	79
S	10	55

At which temperature will two of the above substances be in its liquid state?

- A) 45°C
- B) 70°C
- C) 110°C
- **D)** 130°C

Jane placed some freshly baked cookies from the oven into a covered glass jar as shown in the diagram below.



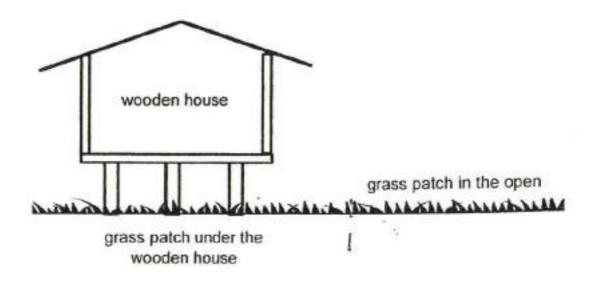
After 30 minutes, she removed the lid to take a cookie to eat but she noticed that the cookies on the top layer were damp.

Which one of the following correctly explains her observation?

( A)	Water va	pour in th	ie jai	condensed	onto	the	warm	cookies.
------	----------	------------	--------	-----------	------	-----	------	----------

- The surrounding air in the jar condensed onto the warm cookies.
- C) The surrounding air in the jar gained heat and condensed onto the cool lid.
- D) Hot water vapour from the cookies lost heat and condensed onto the cool lid.

A wooden house was built on a grass patch.



After two months, it was observed that the grass patch under the wooden house turned yellow while the grass patch in the open was still green.

Which of the following best explains the observation for the grass patch under the wooden house?

$\bigcirc$ A)	There	was	not	enough	water
	111010	was	HOL	CHOUGH	water.

- **B)** There was not enough oxygen.
- C) There was not enough sunlight.
- OD) There was not enough chlorophyll.

Question 26 of 62

Primary 5 Science (Term 4)

2 pts

# What are the properties of matter?

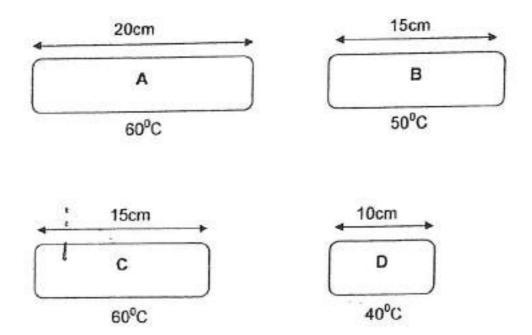
A: It has mass.

B: It occupies space.

C: It cannot be compressed.

- A) A only
- **B)** A and B only
- C) A and C only
- OD) A, B and C

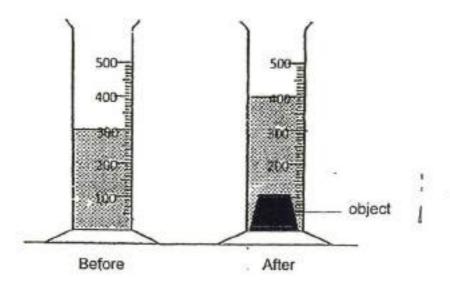
Four steel rods of equal thickness but different lengths were heated to the temperatures indicated in the diagrams below.



All wanted to investigate if the amount of heat the object has is affected by the mass of the object and its temperature. Which one of the following-should-he compare?

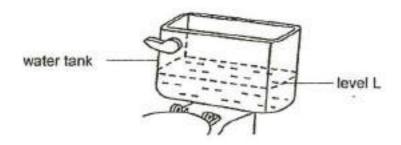
- **A)** A, B and C only
- **B**) A, B and D only
- OC) A, C and D only
- **D)** B, C and D only

Ali recorded the water level before and after four objects were placed in a measuring cylinder.



Object	Water level before object is placed (cm <sup>3</sup> )	Water level after object is placed (cm <sup>3</sup> )
W	300	310
X	300	320
Y	300	330
Z	300	315

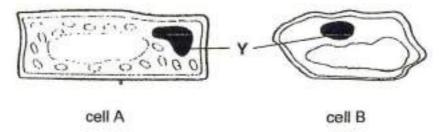
Ali studied the water tank used for flushing a toilet bowl in his house as shown below. After flushing, water enters and re-fills the tank. The tank will stop filling when the water reaches level L.



Based on the results above, which object W, X, Y or Z should Ali put inside the water tank so that he would use the least water to flush the toilet?

- (A) W
- ○B) X
- (C) Y
- ( D) Z

The diagram below shows two different types of cells, A and B, from the same plant.



What is the function of Part Y? (1 mark)

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

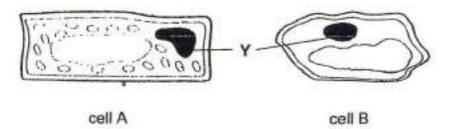
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 30 of 62

Primary 5 Science (Term 4)

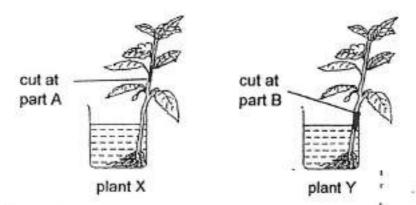
1 nt

The diagram below shows two different types of cells, A and B, from the same plant.



In which part of the plant are you likely to find cell A?

Study the diagram below. In plant X, the food carrying tube was removed from the stem at part,A, while in plant Y, food carrying tube was removed at part B. The two plants were placed in beakers containing the same amount of water.

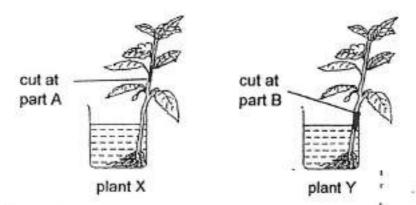


The observations of plants X and Y were recorded in the table below.

Plants	Observations made after 1 week
	The stem above the cut ring swells a little.
X	The roots were healthy.
v	The stem above the cut swells a little.
1	The roots were unhealthy.

What is stored in the swollen part of the stem?

Study the diagram below. In plant X, the food carrying tube was removed from the stem at part,A, while in plant Y, food carrying tube was removed at part B. The two plants were placed in beakers containing the same amount of water.



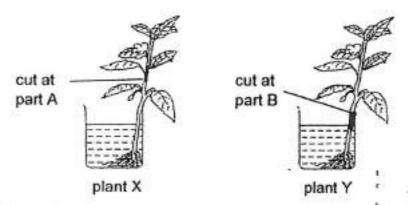
The observations of plants X and Y were recorded in the table below.

Plants	Observations made after 1 week
	The stem above the cut ring swells a little.
X	The roots were healthy.
v	The stem above the cut swells a little.
1	The roots were unhealthy.

Based on the observation in the table, explain why the roots of plant X remained healthy while the roots of plant Y did not. (2 marks)

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

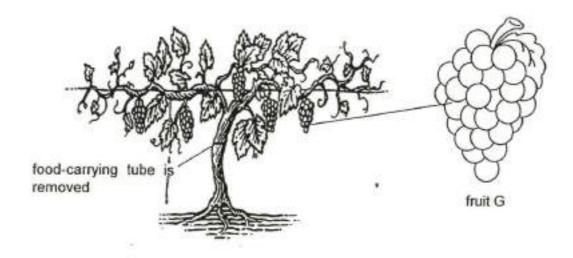
Study the diagram below. In plant X, the food carrying tube was removed from the stem at part,A, while in plant Y, food carrying tube was removed at part B. The two plants were placed in beakers containing the same amount of water.



The observations of plants X and Y were recorded in the table below.

Plants	Observations made after 1 week
	The stem above the cut ring swells a little.
X	The roots were healthy.
v	The stem above the cut swells a little.
1	The roots were unhealthy.

### Study the diagram below.



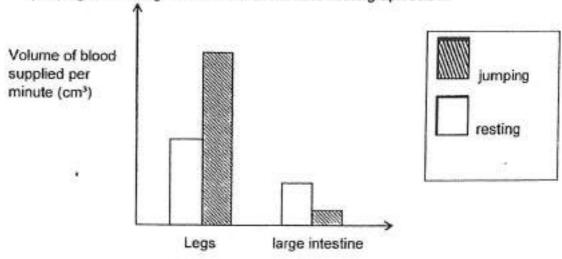
A farmer said that if the food-carrying tube is removed, fruit G will grow bigger.

Do you agree? Explain why.

[1]

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

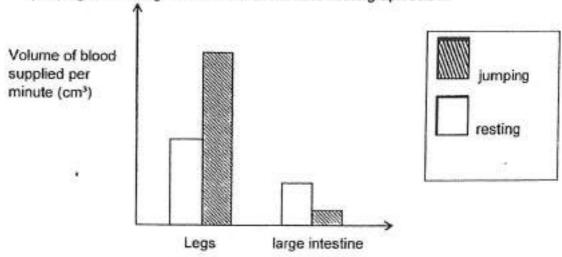
Doctor Tan carried out an investigation to measure the volume of blood supplied per minute to different parts of the human body during two activities, jumping and resting. He recorded the results in the graph below.



Besides oxygen, name two other substances that are transported in the blood. (2 marks)

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

Doctor Tan carried out an investigation to measure the volume of blood supplied per minute to different parts of the human body during two activities, jumping and resting. He recorded the results in the graph below.



Based on the graph, would the amount of water absorbed by the large intestine decrease, increase or remain the same during the jumping activity? Explain why. (1 mark)

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

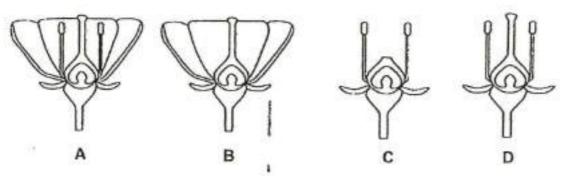
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

#### Question 36 of 62

Primary 5 Science (Term 4)

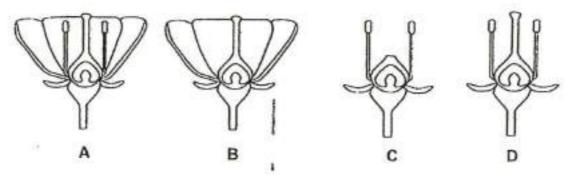
1 pt

The diagram below shows four large and brightly-coloured flowers A, B, C and D from the same type of plant. Some parts of the flower have been removed.



Which of the above flower(s) cannot develop into a fruit? (1 mark)

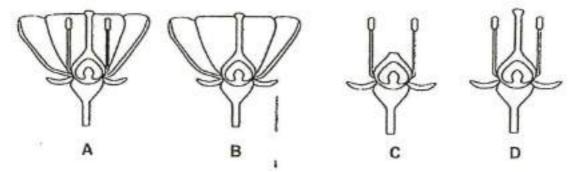
The diagram below shows four large and brightly-coloured flowers A, B, C and D from the same type of plant. Some parts of the flower have been removed.



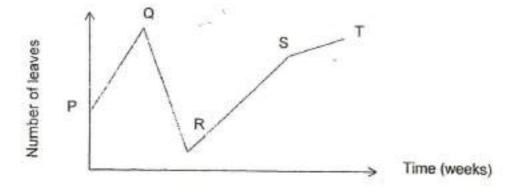
Explain your answer in the previous question. (2 marks)

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

The diagram below shows four large and brightly-coloured flowers A, B, C and D from the same type of plant. Some parts of the flower have been removed.

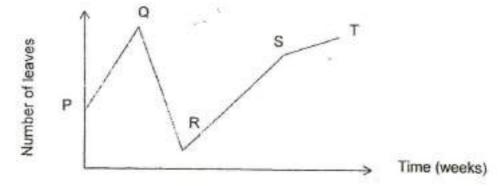


This plant is grown in a garden where butterflies are found. The flowers from this plant are pollinated by butterflies. The graph below shows the number of leaves on this plant over a period of time.



At which part PQ, QR, RS or ST most possibly show the butterflies in the larva stage?

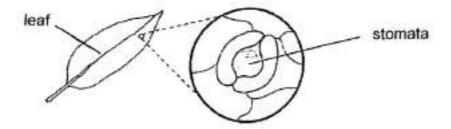
This plant is grown in a garden where butterflies are found. The flowers from this plant are pollinated by butterflies. The graph below shows the number of leaves on this plant over a period of time.



Pesticide was sprayed to kill the caterpillars found on the plant. How would this action affect the number of fruits produced? (1 mark)

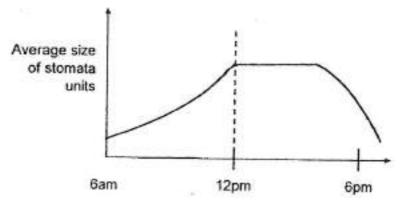
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Leaves have tiny openings called stomata on their surfaces.



Some of the gases that move through the stomata are oxygen, carbon dioxide and water vapour.

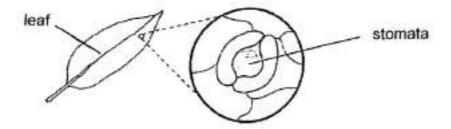
Ray measured the changes in the size of the stomata of a plant placed by the window at different times of a clear sunny day. He plotted the results as shown below.



Based on his results, what effect did light have on the size of the stomata from 6 am to 12 pm? (1 mark)

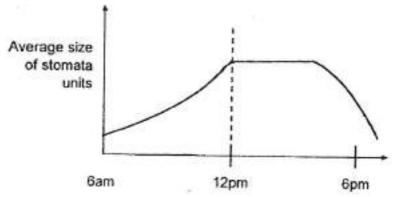
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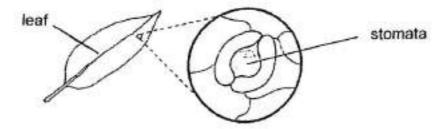
Ray measured the changes in the size of the stomata of a plant placed by the window at different times of a clear sunny day. He plotted the results as shown below.



How does the change in the size of the stomata in (a) help in photosynthesis? (1 mark)

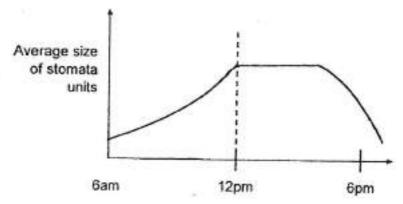
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Leaves have tiny openings called stomata on their surfaces.



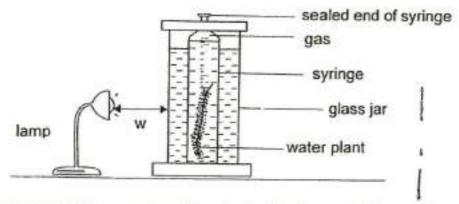
Some of the gases that move through the stomata are oxygen, carbon dioxide and water vapour.

Ray measured the changes in the size of the stomata of a plant placed by the window at different times of a clear sunny day. He plotted the results as shown below.



The change in size of the stomata in the presence of light can also be a disadvantage to the plant. What is this disadvantage? (1 mark)

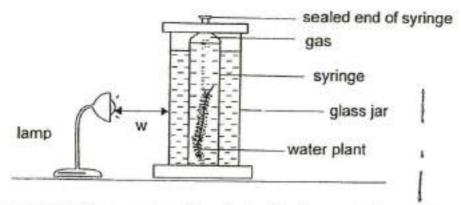
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.



She repeated the experiment by placing the lamp at different distances from the glass jar. The results are shown in the table below.

W (cm)	Volume of gas collected after 1 hour (cm <sup>3</sup> )
20	6
30	4
40	3

Name the gas that was collected in the syringe.

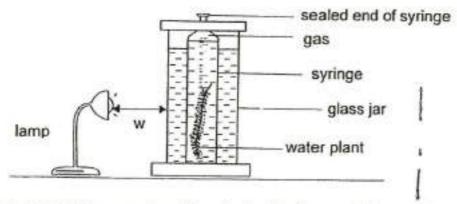


She repeated the experiment by placing the lamp at different distances from the glass jar. The results are shown in the table below.

W (cm)	Volume of gas collected after 1 hour (cm <sup>3</sup> )
20	6
30	4
40	3

Explain how the gas was formed. (1 mark)

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

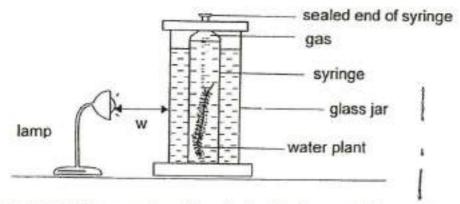


She repeated the experiment by placing the lamp at different distances from the glass jar. The results are shown in the table below.

W (cm)	Volume of gas collected after 1 hour (cm <sup>3</sup> )
20	6
30	4
40	3

Based on his results, what was the relationship between the distance, and the volume of gas collected? (1 mark)

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



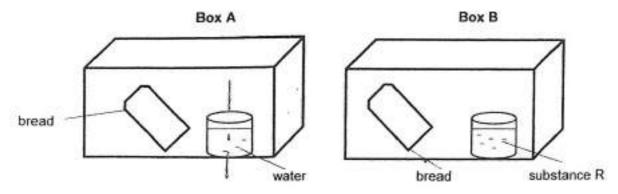
She repeated the experiment by placing the lamp at different distances from the glass jar. The results are shown in the table below.

W (cm)	Volume of gas collected after 1 hour (cm <sup>3</sup> )
20	6
30	4
40	3

Why must the experiment be conducted in a dark room? (1 mark)

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

Jane placed 2 identical slices of bread into two identical airtight boxes, A and B. She placed the boxes in a warm place. Substance R absorbs water vapour from the air.



In which box, A or B, would fungus first appear on the bread? Give a reason for your answer. (1 mark)

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

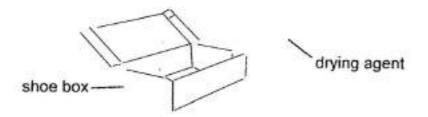
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

## Question 48 of 62

Primary 5 Science (Term 4)

0 pts

Jane bought a pair of leather shoes. When she opened the box, she found a packet of drying agent as shown in the diagram below.

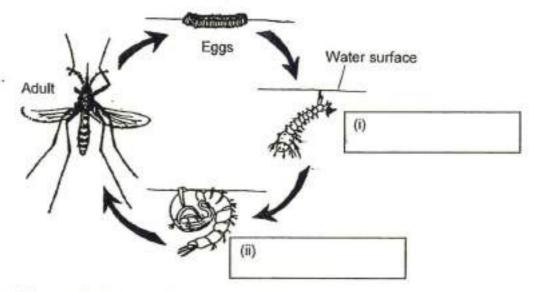


## Why was the drying agent included in the box?

[2]

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

Fill in the stages in the diagram above to complete the life cycle of a mosquito.

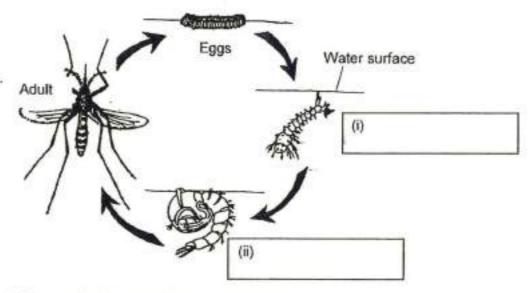


The results of her study are shown below:

	Duration of	stages acro	ss different t	emperatures (	number of days)
	16 °C	22 °C	28 °C	33 °C	36°C
egg	13	8	3	3	4
larva	20	13	6	7	6
pupa	7	4	2	3	4

Fill in the stages for (i).

Fill in the stages in the diagram above to complete the life cycle of a mosquito.



The results of her study are shown below:

	Duration of	stages acro	ss different t	emperatures (	number of days)
	16 °C	22 °C	28 °C	33 °C	36°C
egg	13	8	3	3	4
larva	20	13	6	7	6
pupa	7	4	2	3	4

Fill in the stages for (ii).

The results of her study are shown below:

	Duration of	stages acro	ss different t	emperatures (	number of days)
	16 °C	22 °C	28 °C	33 °C	36°C
egg	13	8	3	3	4
larva	20	13	6	7	6
pupa	7	4	2	3	4

Based on the results in the table above, what is the relationship between the temperature of the surroundings from 16°C to 28°C and the hatching period of the eggs of the Aedes mosquito? (1 mark)

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

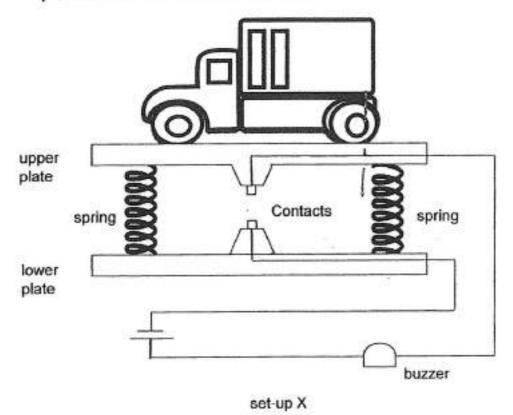
The results of her study are shown below:

	Duration of	stages acro	ss different t	emperatures (	number of days)
	16 °C	22 °C	28 °C	33 °C	36°C
egg	13	8	3	3	4
larva	20	13	6	7	6
pupa	7	4	2	3	4

At which temperature of surrounding air, will the cases of dengue most likely be the greatest? Explain your answer. (2 marks)

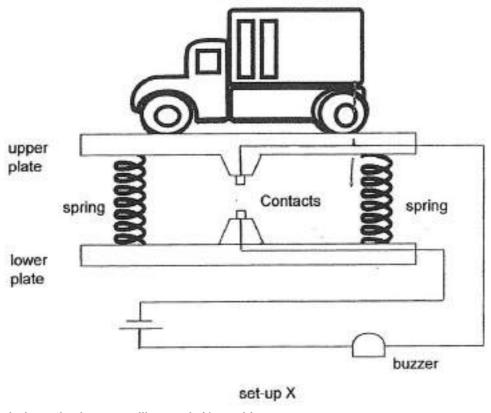
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

All trucks must not be more that 4000kg in mass in order to travel on a bridge. A device, set-up X, is used to check the mass of the truck before it is allowed to cross the bridge. If the truck is more that 4000kg, the springs will be pressed down and the buzzer will sound.



What type of material are the contacts made of?

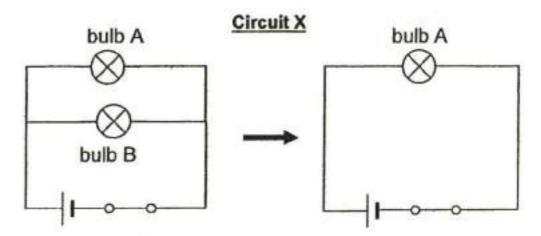
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Explain how the buzzer will sound. (1 mark)

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

## The diagram below shows electric circuit X.

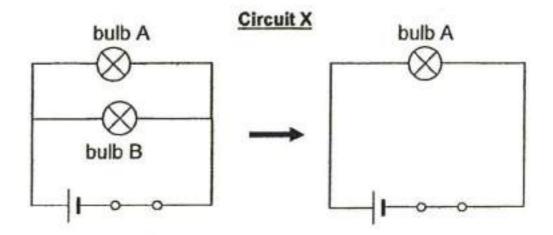


Will bulb A remain lit when bulb B is removed as shown above? Give a reason. (1 mark)

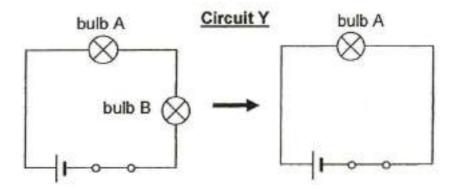
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

[2]

## The diagram below shows electric circuit X.



The electric circuit is rearranged to form circuit Y as shown below.



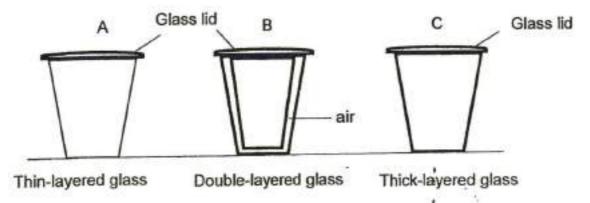
What is the difference you observe in bulb A when bulb B is removed? Explain why.

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

State a similar	ity and a difference between evaporation and boiling.	[2
Similarity:		_
Difference:		
	i	

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

Jimmy poured equal amounts of cold water into 3 cups, A, B and C. The cups were made of the same type of glass. He wanted to find out which cup is the best to keep the cold water cold for the longest time.



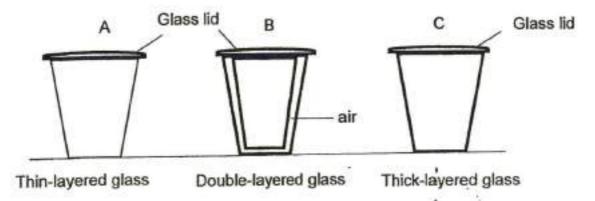
He placed the cups in the same place and observed the amount of water droplets formed on the outer surface of the cups over a period of 10 minutes. He recorded his observations as shown below.

Cup	Observations
	Some water droplets were formed.
	Very few water droplets were formed
	A lot of water droplets were formed.

Write A, B and C in the table above to match the cups with the respective observations. Match the options below:

1. [ ]	Some water droplets were formed.	A. B	
2. [ ]	Very few water droplets were formed.	B. C	
3. [ ]	A lot of water droplets were formed.	C. A	

Jimmy poured equal amounts of cold water into 3 cups, A, B and C. The cups were made of the same type of glass. He wanted to find out which cup is the best to keep the cold water cold for the longest time.



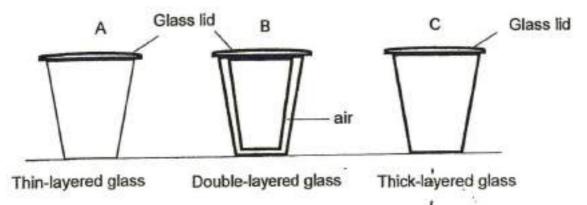
He placed the cups in the same place and observed the amount of water droplets formed on the outer surface of the cups over a period of 10 minutes. He recorded his observations as shown below.

Cup	Observations
	Some water droplets were formed.
	Very few water droplets were formed
	A lot of water droplets were formed.

Explain why water droplets appeared on the outer surface of all the cups. (2 marks)

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

Jimmy poured equal amounts of cold water into 3 cups, A, B and C. The cups were made of the same type of glass. He wanted to find out which cup is the best to keep the cold water cold for the longest time.



He placed the cups in the same place and observed the amount of water droplets formed on the outer surface of the cups over a period of 10 minutes. He recorded his observations as shown below.

Cup	Observations
m i	Some water droplets were formed.
= +	Very few water droplets were formed
	A lot of water droplets were formed.

The windows of most houses are made of glass.

Which glass A, B or C would be most suitable for the windows to keep a house warm during winter? Explain why. (2 marks)

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

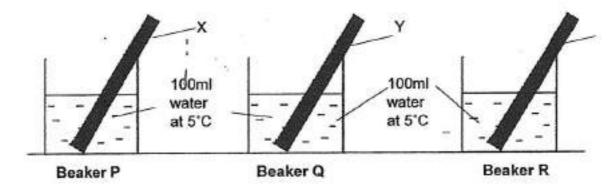
Joyce was given three rods, X, Y and Z, which were made of different materials. When she touched the rods with her bare hands, X was the coldest, followed by Z and then Y.

Explain why Joyce's hand felt cold when she touched the rods. (1 mark)

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

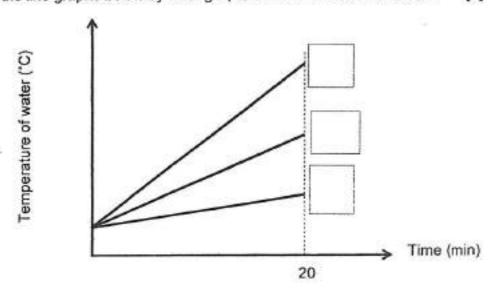
Joyce was given three rods, X, Y and Z, which were made of different materials. When she touched the rods with her bare hands, X was the coldest, followed by Z and then Y.

Joyce then heated the three rods to 85°C. Then she placed each of them into a beaker of water as shown below.



She left the beakers in her room and measured the temperature of the water in each beaker over 20 minutes. The line graphs below show the results of her experiment.

Label the line graphs below by writing P, Q and R in the correct boxes. [2]



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