Test: Primary 4 Science (Term 4) - Pei Chun (2020)

Points: 87 points

Name: _____ **Score:** _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

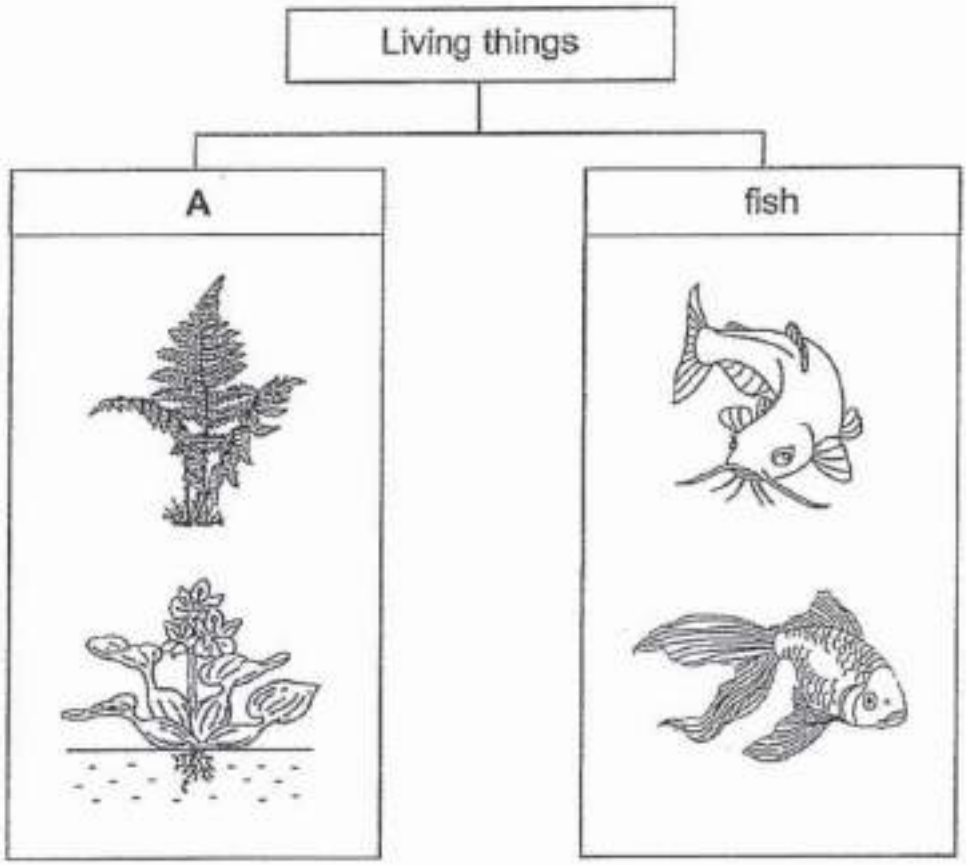
- ○ Only select one answer
- ☐ Can select multiple answers

Question 1 of 67

Primary 4 Science (Term 4) 2 pts

For each question, choose the most suitable answer from the options given. (28 x 2 marks)

The table below shows how some living things can be grouped.



Which one of the following is the most suitable heading for group **A**?

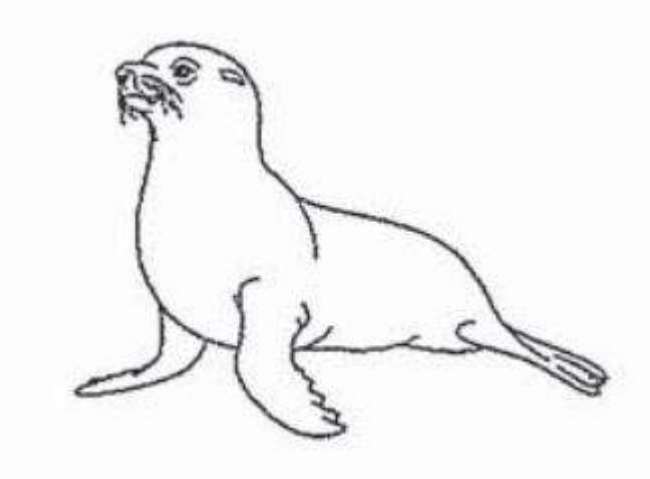
- **A)** fungi
- **B)** plants
- **C)** bacteria
- **D)** mammals

Question 2 of 67

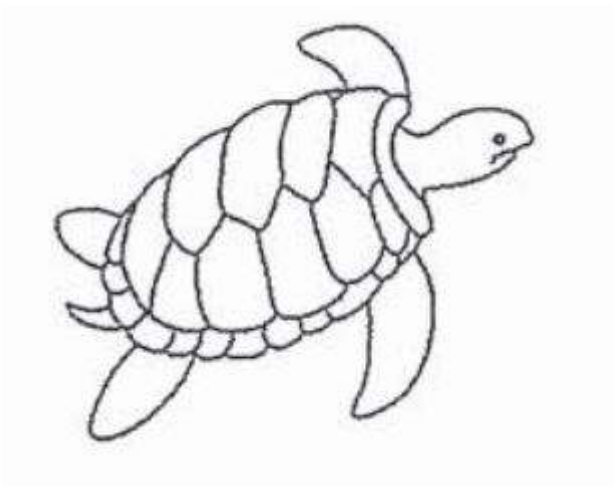
Primary 4 Science (Term 4) 2 pts

Which animal is NOT a reptile?

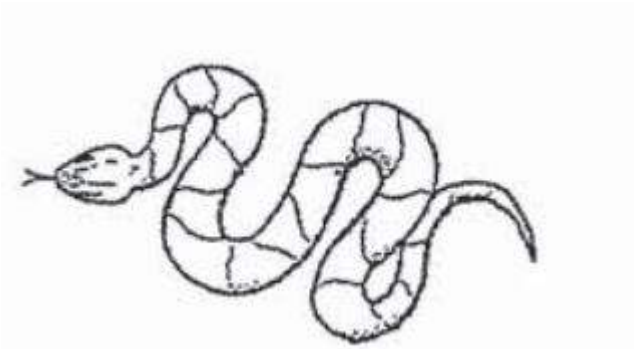
A)



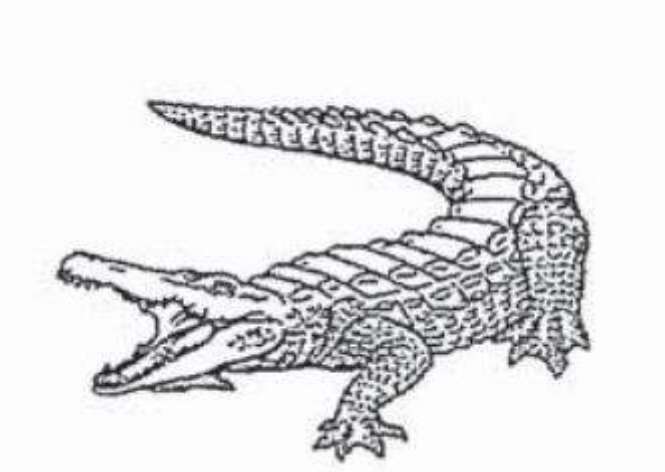
B)



C)



D)



Question 3 of 67 Primary 4 Science (Term 4) 2 pts

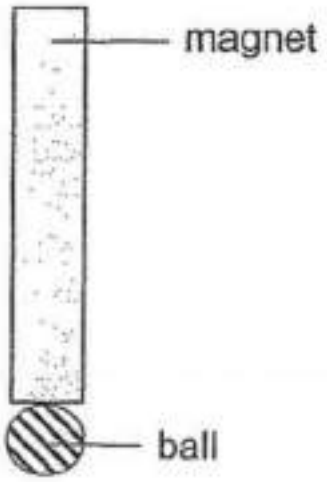
The diagram shows a man sitting on a raft.

Wood is used to make the raft because wood _____.

- **A)** is not shiny
- **B)** breaks easily
- **C)** does not sink in water
- **D)** does not allow light to pass through

Question 4 of 67 Primary 4 Science (Term 4) 2 pts

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



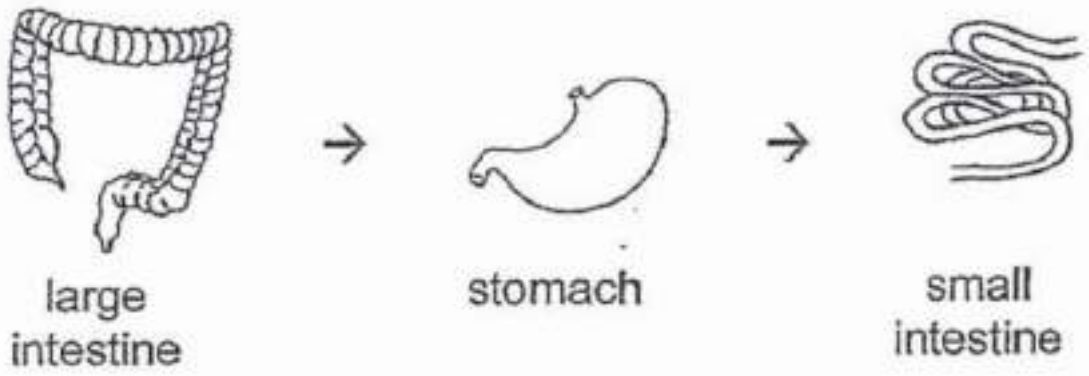
The ball is made of _____.

- **A)** steel
- **B)** wood
- **C)** rubber
- **D)** plastic

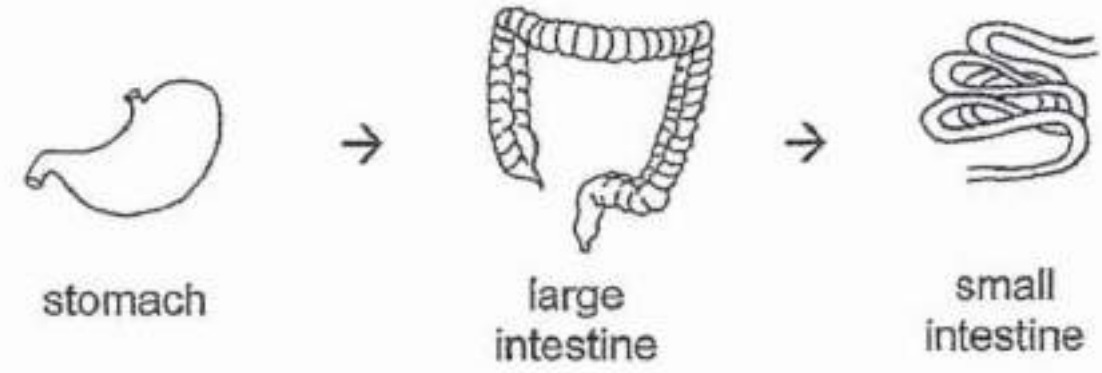
Question 5 of 67 Primary 4 Science (Term 4) 2 pts

Which of the following shows the correct order when food moves through some parts of the digestive system?

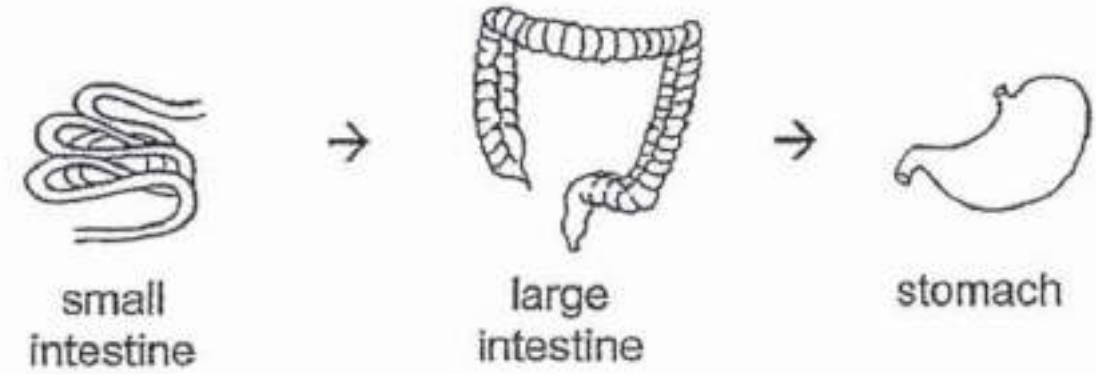
A)



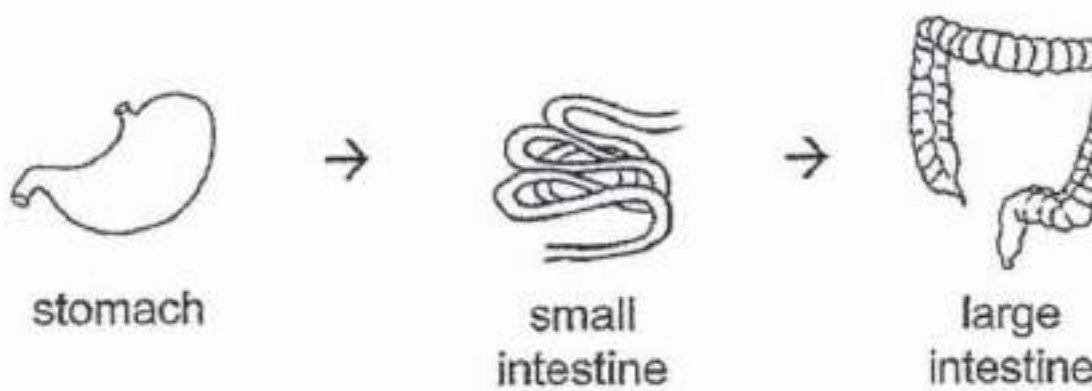
B)



C)



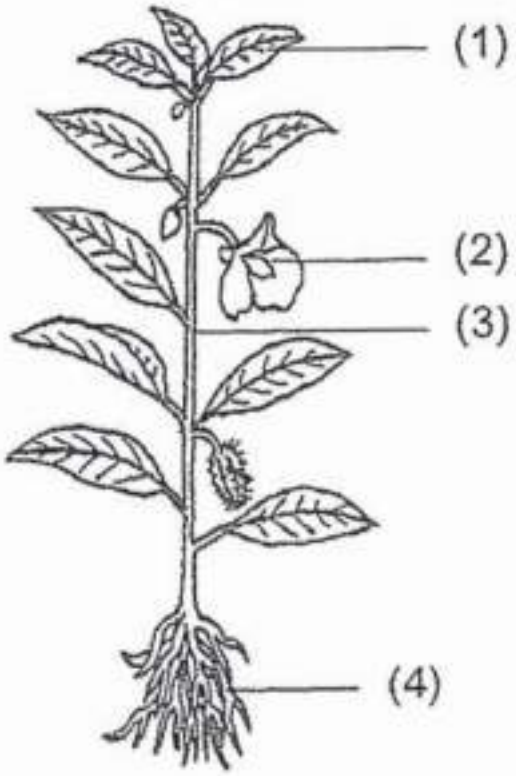
D)



Question 6 of 67 Primary 4 Science (Term 4) 2 pts

The diagram shows a plant.

Which part, (1), (2), (3) or (4), is the stem?

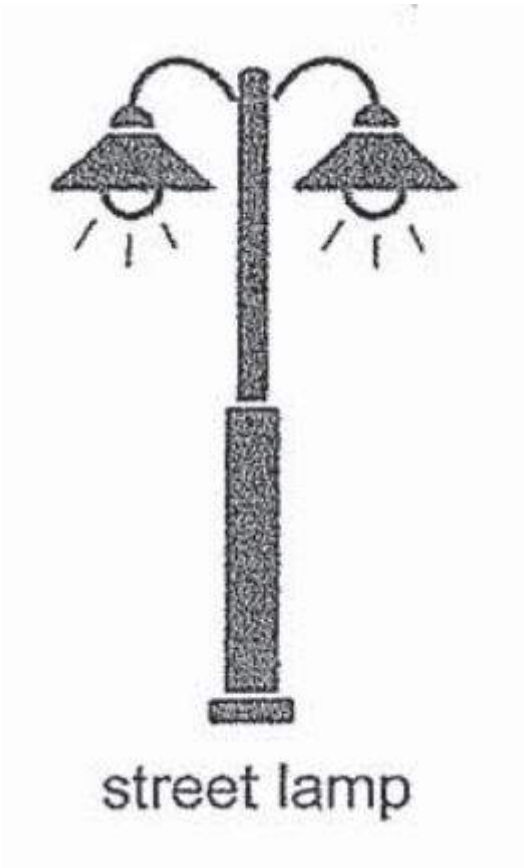


- **A)** 1
- **B)** 2
- **C)** 3
- **D)** 4

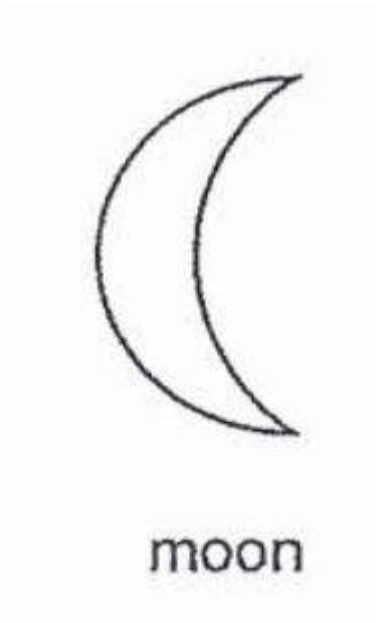
Question 7 of 67 Primary 4 Science (Term 4) 2 pts

Which of the following is a source of light?

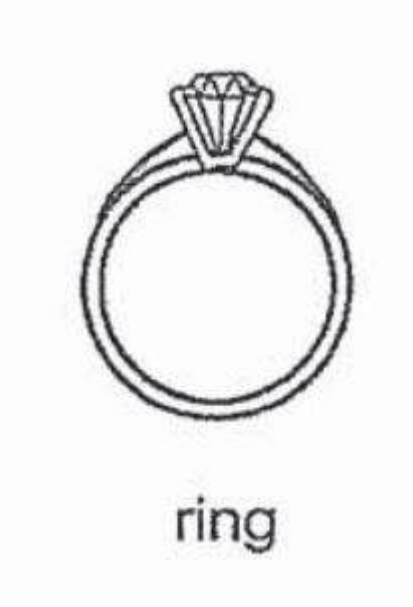
A)



B)



C)

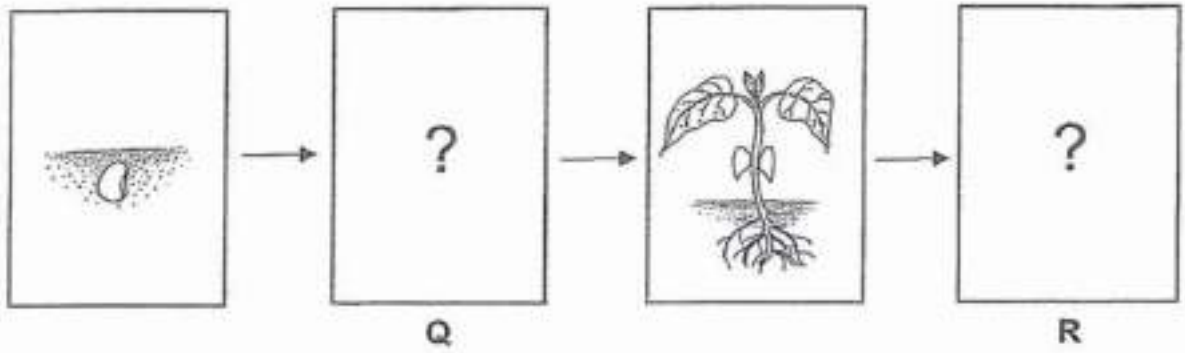


D)

Question 8 of 67

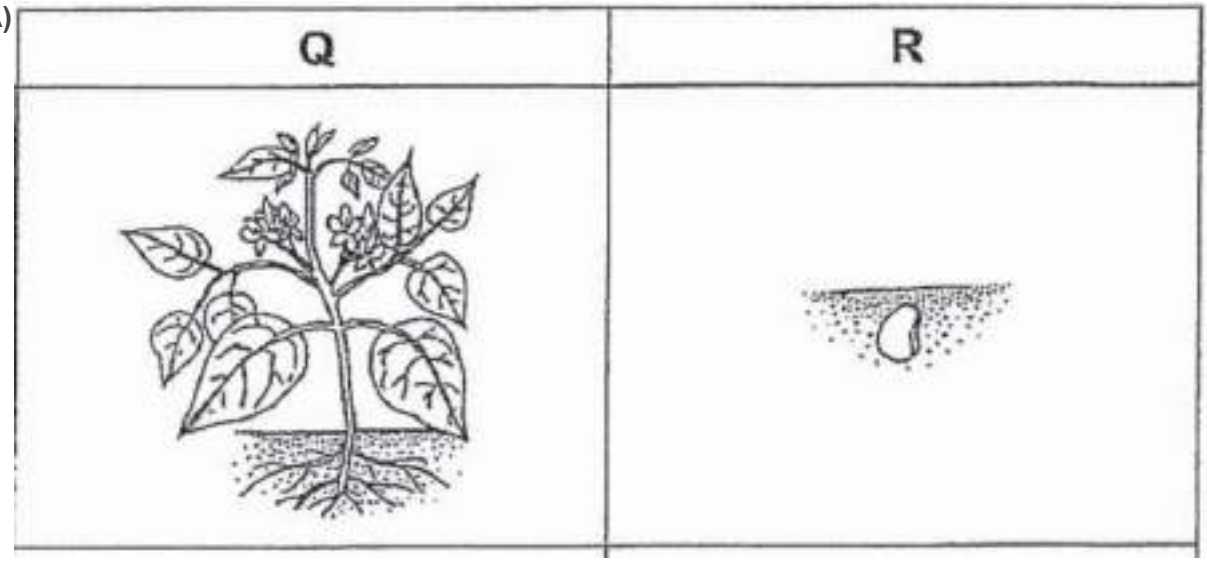
Primary 4 Science (Term 4) 2 pts

The diagram below shows the growth of a young plant with two missing stages Q and R.

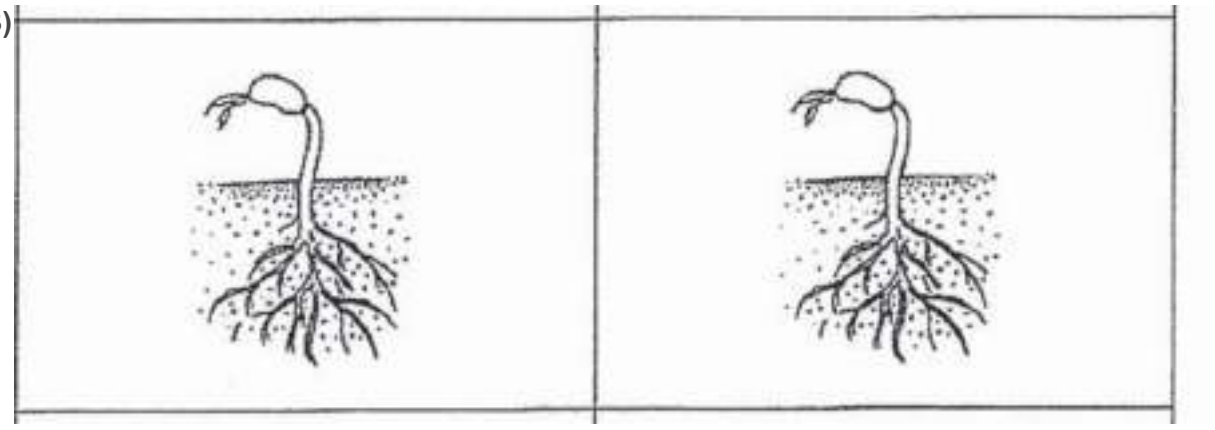


Which one of the following shows the correct stages for Q and R?

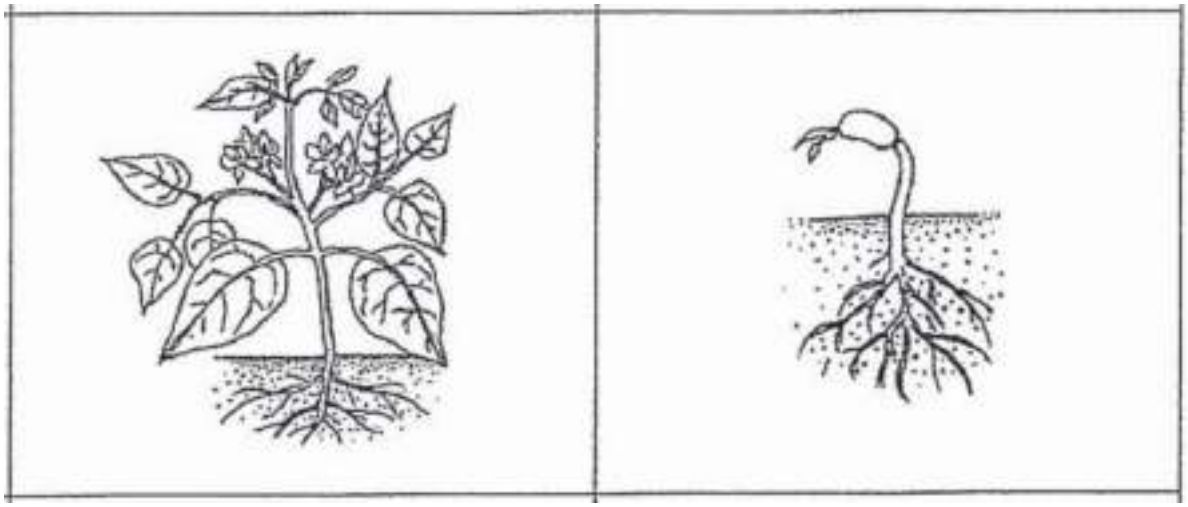
A)



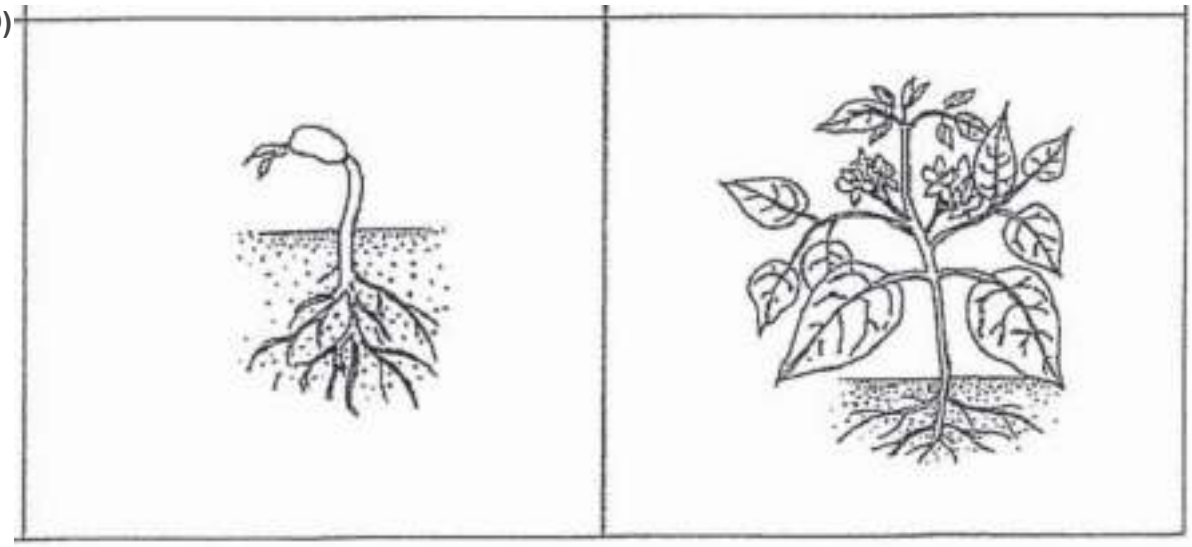
B)



C)

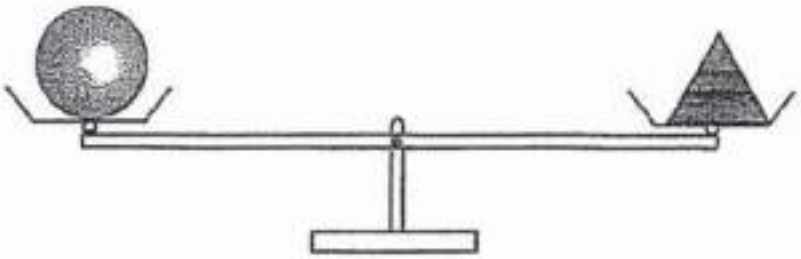


D)



Question 9 of 67 Primary 4 Science (Term 4) 2 pts

Study the diagram below.



Which of the following statements is true?

A) Both objects have the same size.

B) Both objects have the same mass.

C) Both objects have the same shape.

D) Both objects have the same volume.

Question 10 of 67

Primary 4 Science (Term 4) 2 pts

Which one of the following is the best conductor of heat?

- **A)** a paper plate
- **B)** a metal plate
- **C)** a plastic plate
- **D)** a ceramic plate

Question 11 of 67

Primary 4 Science (Term 4) 2 pts

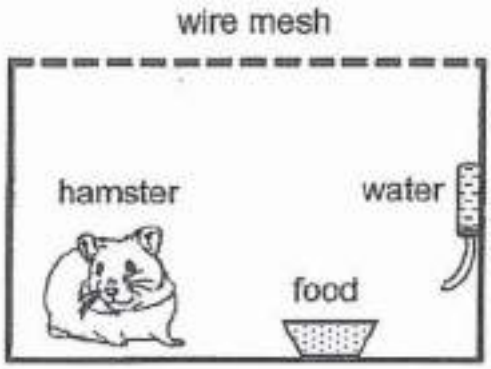
Which of the following can bear fruits?

- **A)** fungi
- **B)** bacteria
- **C)** flowering plants
- **D)** non-flowering plants

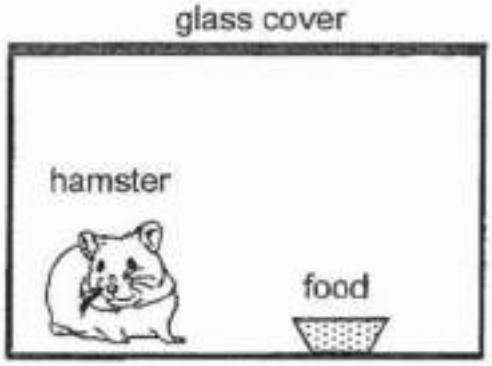
Question 12 of 67

Primary 4 Science (Term 4) 2 pts

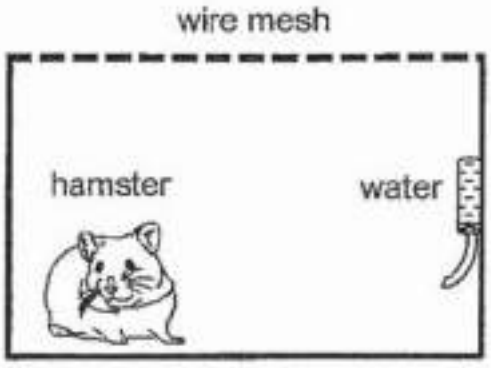
Aisha wanted to keep a hamster as a pet. She thought of three possible ways A, B and C to keep her hamster.



A



B



C

Which one of the following is correct?

A)

Least suitable way to keep the hamster	Most suitable way to keep the hamster
A	B

B)

Least suitable way to keep the hamster	Most suitable way to keep the hamster

B	A

C)

Least suitable way to keep the hamster	Most suitable way to keep the hamster
B	C

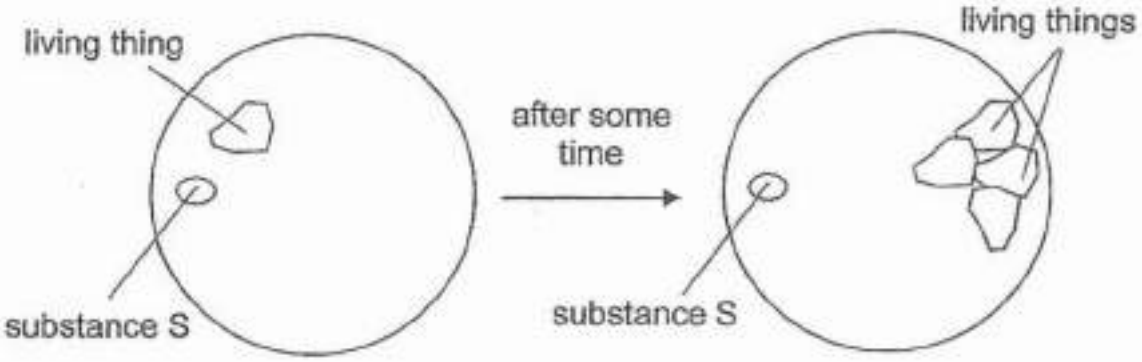
D)

Least suitable way to keep the hamster	Most suitable way to keep the hamster
C	A

Question 13 of 67

Primary 4 Science (Term 4) 2 pts

Jasper observed a living thing under the microscope.



Based on Jasper's observation, which is the correct conclusion?

A : Living things grow.
B : Living things respond.
C : Living things reproduce.

A) A only
B) B only
C) A and C only
D) B and C only

Question 14 of 67 Primary 4 Science (Term 4) 2 pts

The table shows Ivan's answers to four questions about moss.

Question	Answer
A – Does it have seeds?	Yes
B – Can it produce flowers?	Yes
C – Can it make its own food?	Yes
D – Does it take in water to survive?	No

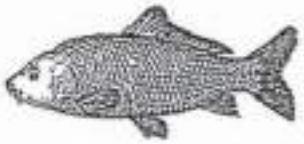
Which question was answered correctly?

- **A)** A
- **B)** B
- **C)** C
- **D)** D

Question 15 of 67

Primary 4 Science (Term 4) 2 pts

Hassan had to classify the three animals shown.

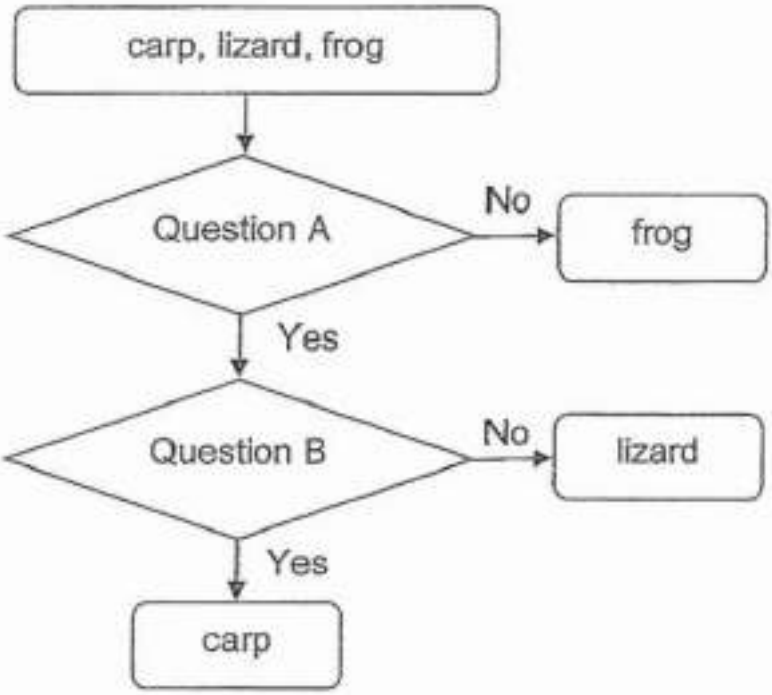


carp

lizard

frog

He classified them with the help of the chart below.



What are questions A and B?

A)

Question A	Question B
Do they have legs?	Do they breathe through gills?

B)

Question A	Question B
Do they have legs?	Can they live on land and in water?

C)

Question A	Question B
Are they covered with scales?	Do they breathe through gills?

D)

Question A	Question B
Are they covered with scales?	Can they live on land and in water?

Question 16 of 67

Primary 4 Science (Term 4) 2 pts

Where can bacteria be found?

A : in the body of living things
B : on the furniture in the classroom
C : in the food we eat

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

Question 17 of 67

Primary 4 Science (Term 4) 2 pts

A student made three statements about bacteria and mushroom.

A : They reproduce by spores.
B : They do not make their own food.
C : They can be seen only under a microscope.

Which of the following is correct?

- **A)**

Bacteria	Mushroom
A, B	C

- **B)**

Bacteria	Mushroom
B, C	A, B

- **C)**

Bacteria	Mushroom
B, C	C

- **D)**

Bacteria	Mushroom
A, B, C	A, B

Question 18 of 67

Primary 4 Science (Term 4) 2 pts

Which of the following correctly identifies the parts of the digestive system?

A)

Digestion begins	Digested food absorbed into blood
mouth	small intestine

B)

Digestion begins	Digested food absorbed into blood
stomach	small intestine

C)

Digestion begins	Digested food absorbed into blood
mouth	large intestine

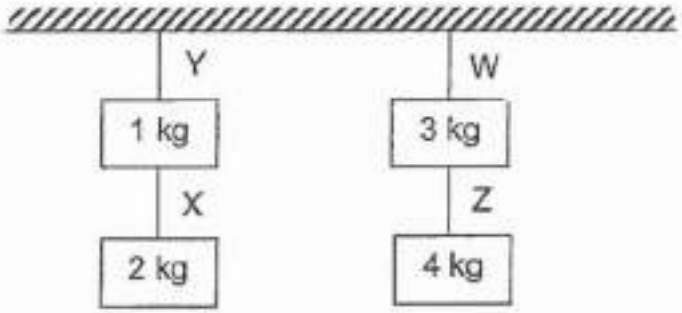
D)

Digestion begins	Digestion food absorbed into blood
small intestine	large intestine

Question 19 of 67

Primary 4 Science (Term 4) 2 pts

Bin Xun hangs four weights on four pieces of strings, W, X, Y and Z, based on the maximum mass each piece of string can hold as shown below. The strings are of the same length and each piece is made of a different material.



Which of the following correctly shows the four strings arranged from the weakest to the strongest?

A) Weakest ----------> Strongest

Y X W Z

B) X Y Z W

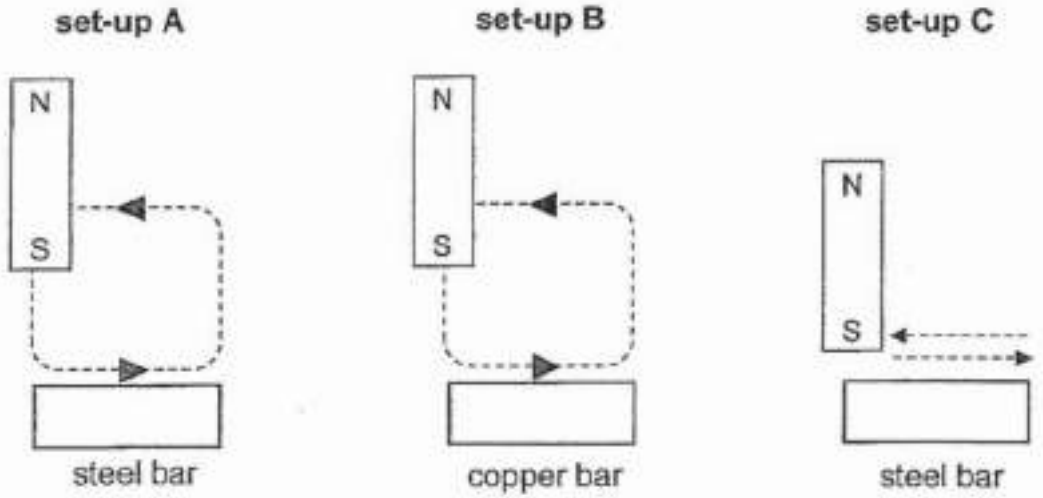
C) W Z Y X

D) X Z Y W

Question 20 of 67

Primary 4 Science (Term 4) 2 pts

Mary stroked three bars with the same magnet in the directions shown below.



After thirty strokes, what would most likely be the number of paper clips attracted to the bar in each set-up?

A)

set-up A	set-up B	set-up C
0	3	3

B)

set-up A	set-up B	set-up C
0	3	0

C)

set-up A	set-up B	set-up C
3	0	3

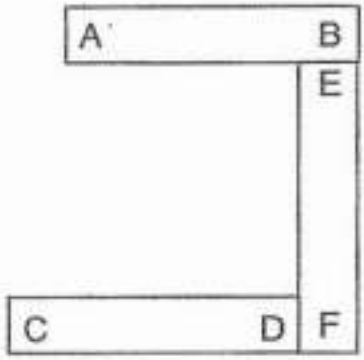
D)

set-up A	set-up B	set-up C
3	0	0

Question 21 of 67

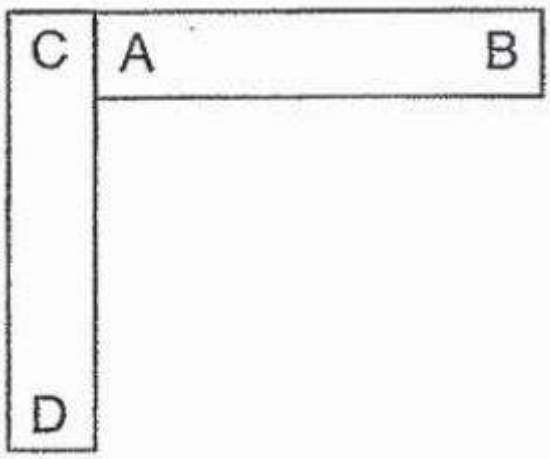
Primary 4 Science (Term 4) 2 pts

Three bar magnets AB, CD and EF can be arranged as shown below.



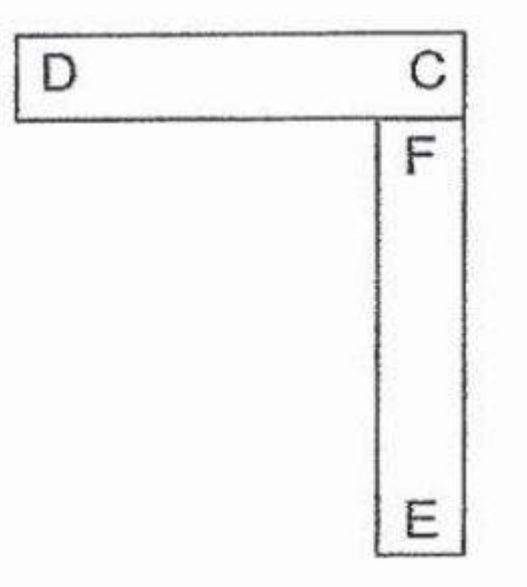
Which one of the following arrangements of the magnets is **NOT** possible?

A)

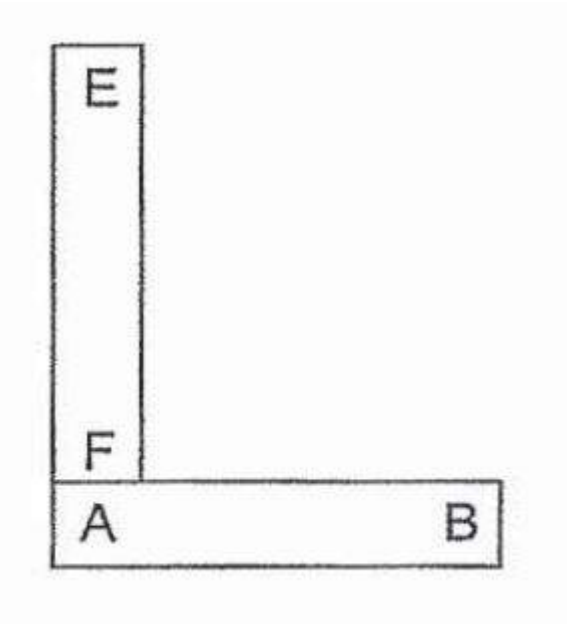


B)

C)



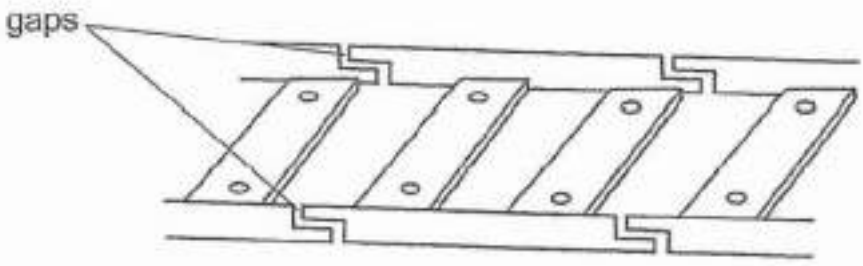
D)



Question 22 of 67

Primary 4 Science (Term 4) 2 pts

There are gaps between railway tracks as shown below.



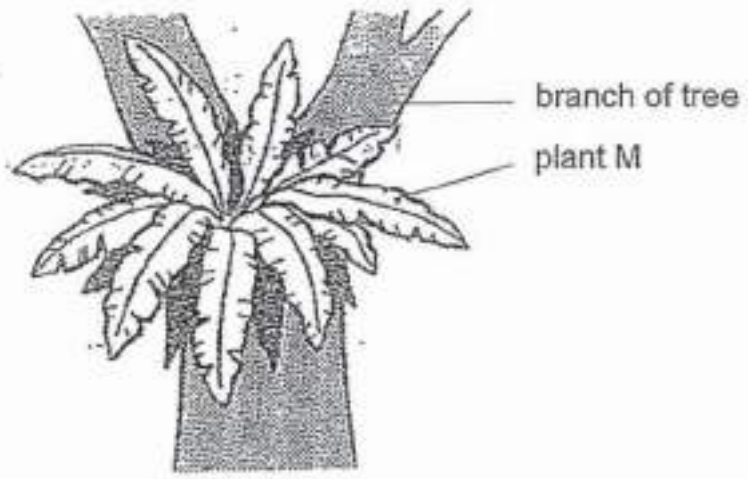
On a hot day, the gaps allow the railway tracks to _____.

- **A)** gain heat and expand
- **B)** gain heat and contract
- **C)** lose heat and expand
- **D)** lose heat and contract

Question 23 of 67

Primary 4 Science (Term 4) 2 pts

The diagram shows plant M growing on a high branch of a tree in the forest.



The leaves of plant M can _____.

- **A)** make its own food
- **B)** keep the tree upright
- **C)** get food from the tree
- **D)** absorb water from the branch

Question 24 of 67

Primary 4 Science (Term 4) 2 pts

Ali drew a table and used it to compare the life cycles of some living things.

	Life Cycle		
Characteristic	**mosquito**	**chicken**	**grasshopper**
Does the young look like the adult?	No	**Answer Q**	Yes
Question P	No	Yes	Yes

What can Question P and Answer Q be?

A)

Question P	**Answer Q**
Does it lay eggs on land?	Yes

B)

Question P	**Answer Q**
Does it lay eggs on land?	No

C)

Question P	**Answer Q**
Does it give birth to its young?	Yes

D)

Question P	**Answer Q**
Does it give birth to its young?	No

Question 25 of 67

Primary 4 Science (Term 4) 2 pts

Muthu studied the life cycle of insect X and recorded the number of months for each stage of its life cycle shown below. However, he did not present the stages of the life cycle in the correct order.

Stages	Number of months
nymph	6
egg	1
adult	8

Based on Muthu's results, how many month(s) does it take for insect X to become an adult **after** the egg has hatched?

A) 1 month

B) 5 months

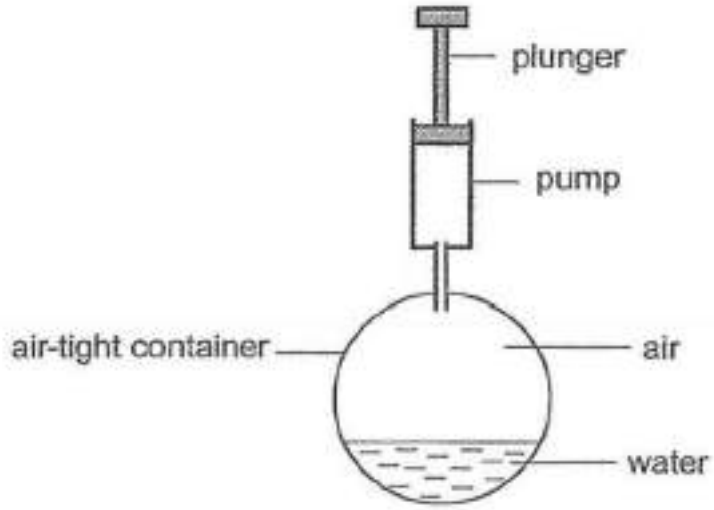
C) 6 months

D) 8 months

Question 26 of 67

Primary 4 Science (Term 4) 2 pts

The container holds 40 cm^3 of water and 60 cm^3 of air.



When the plunger was pushed in completely, 10 cm^3 of air was forced into the container. What would be the final volume of the air in the container?

- **A)** 40 cm^3
- **B)** 50 cm^3
- **C)** 60 cm^3
- **D)** 70 cm^3

Question 27 of 67

Primary 4 Science (Term 4) 2 pts

Boon Ping heated different volumes of water to different temperatures as shown in the table below.

beaker	volume of water (ml)	temperature (°C)
A	70	30
B	70	40
C	80	30

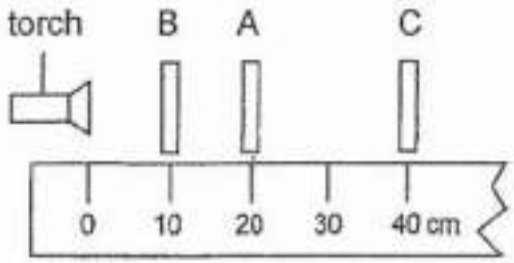
Which of the following is true?

- **A)** The water in beaker A has less heat than the water in B.
- **B)** The water in beaker A has more heat than the water in C.
- **C)** The water in beaker A has the same amount of heat as the water in B.
- **D)** The water in beaker A has the same amount of heat as the water in C.

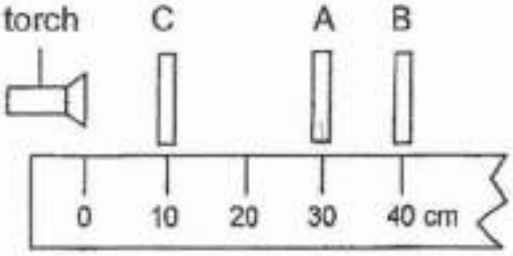
Question 28 of 67

Primary 4 Science (Term 4) 2 pts

Jenny conducted an experiment to find out whether light can pass through three sheets, A, B and C, made of different materials. She arranged the sheets differently in set-ups P and Q as shown.



Set-up P



Set-up Q

When the torch was switched on, the distance travelled by the light for each set-up was measured and are shown below.

	Distance travelled by light
Set-up P	20 cm
Set-up Q	30 cm

Which sheet(s) did not allow light to pass through?

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

Question 29 of 67

Primary 4 Science (Term 4) 2 pts

Hui Fen saw some living and non-living things in the garden.

State if X and Y are living or non-living things.

1. [ ]	X is a _____	A.	living things
2. [ ]	Y is a _____	B.	non-living things

Question 30 of 67

Primary 4 Science (Term 4) 3 pts

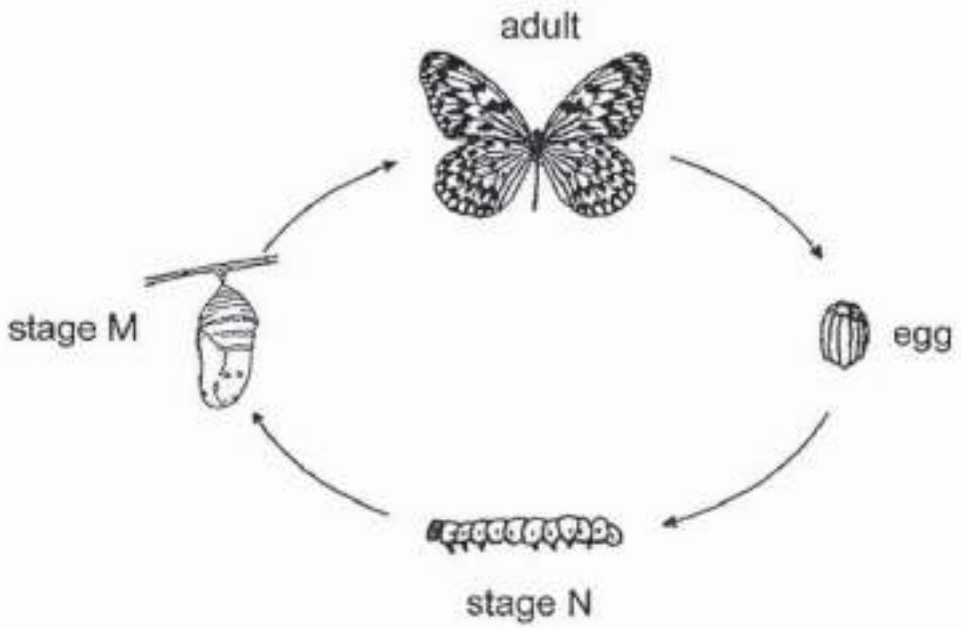
Match the functions to the organ systems

1. [ ]	Removes solid wastes	A.	Respiratory
2. [ ]	Transports substances to all parts of the body	B.	Skeletal System
3. [ ]	Supports the body and gives it shape	C.	Circulatory System
4. [ ]	Takes air into and out of the body	D.	None

Question 31 of 67

Primary 4 Science (Term 4) 1 pt

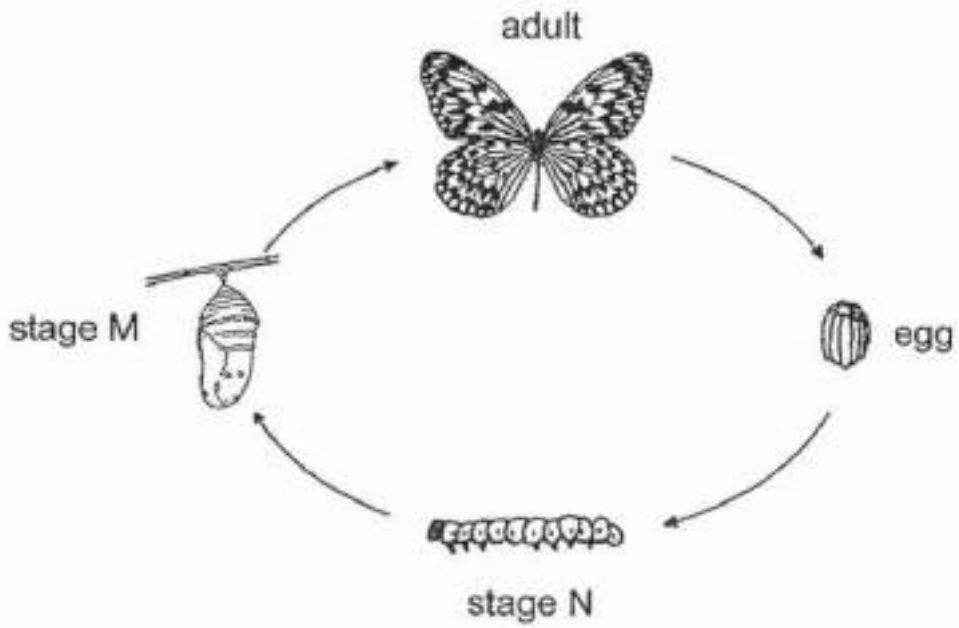
The diagram below shows the stages in the life cycle of a butterfly.



Name Stage M.

Question 32 of 67 Primary 4 Science (Term 4) 1 pt

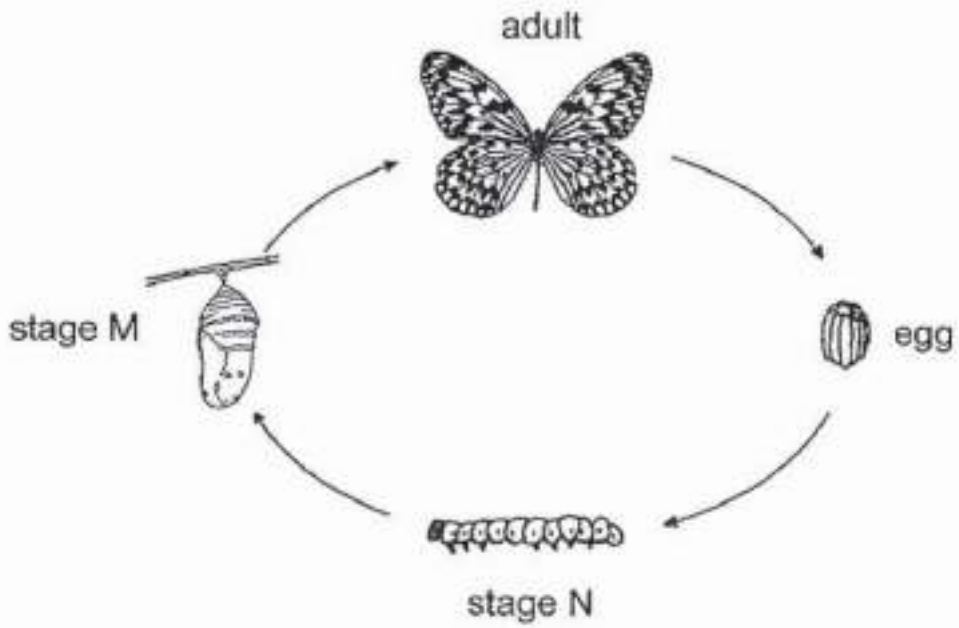
The diagram below shows the stages in the life cycle of a butterfly.



Name Stage N.

Question 33 of 67 Primary 4 Science (Term 4) 1 pt

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

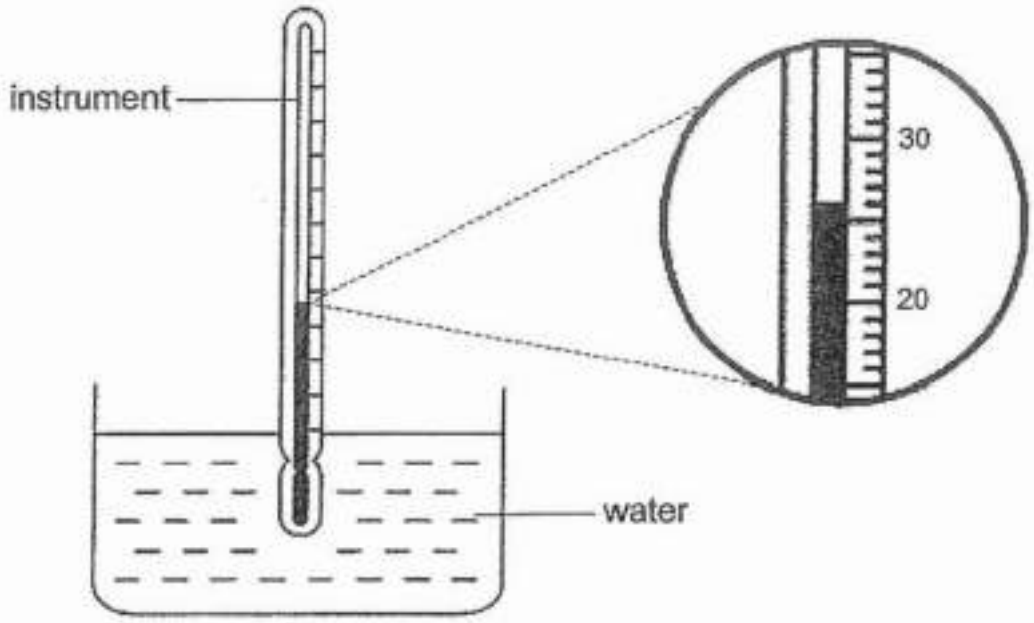


State one other animal that has a similar number of stages in its life cycle as a butterfly.

Question 34 of 67

Primary 4 Science (Term 4) 1 pt

Max used an instrument to measure the temperature of water.

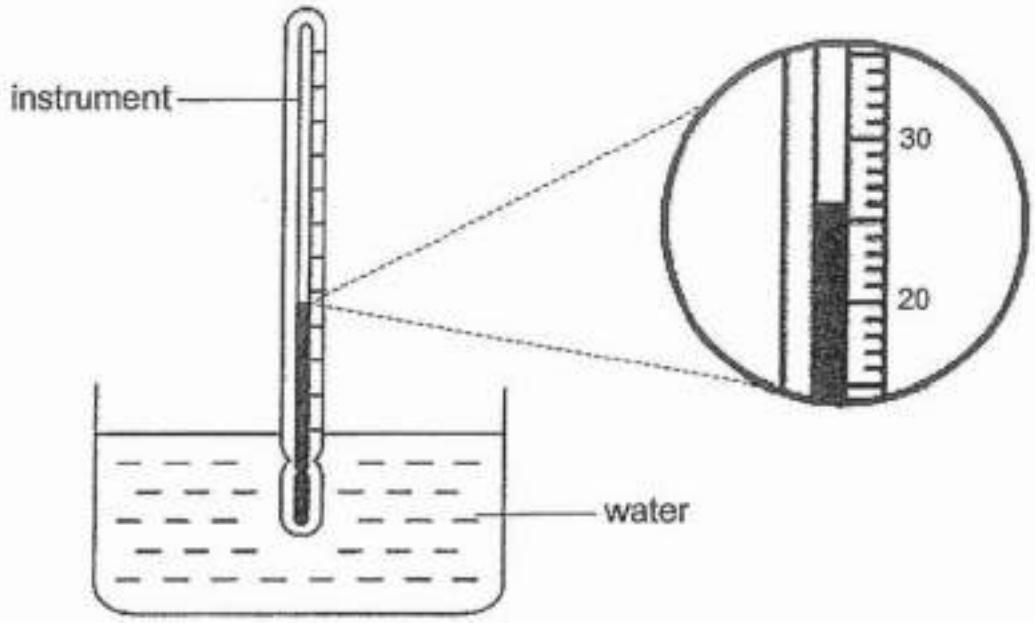


What is the instrument called?

Question 35 of 67

Primary 4 Science (Term 4) 1 pt

Max used an instrument to measure the temperature of water.

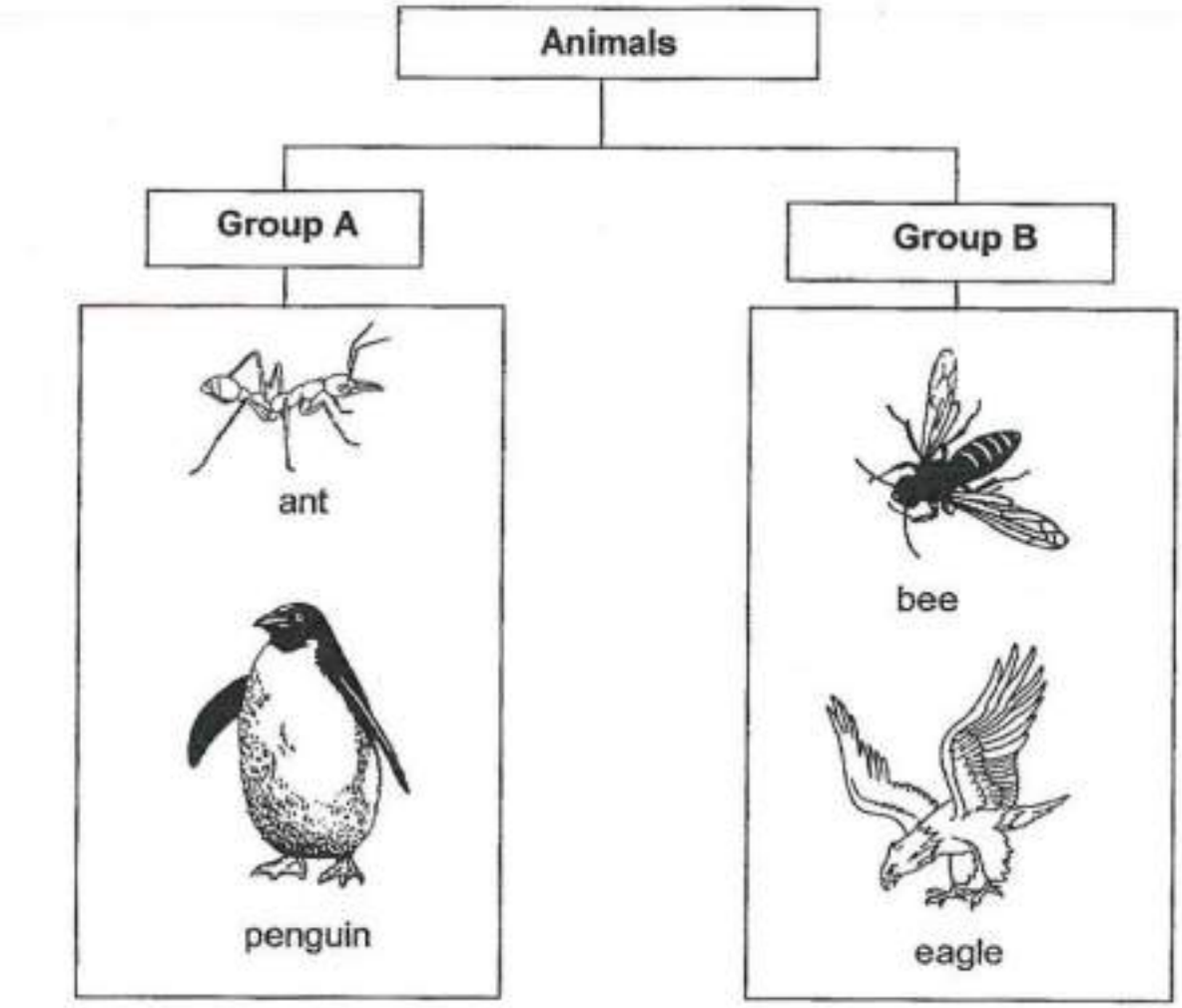


What is the temperature of water?

Question 36 of 67

Primary 4 Science (Term 4) 0.5 pts

Riya classified four animals in the chart below.

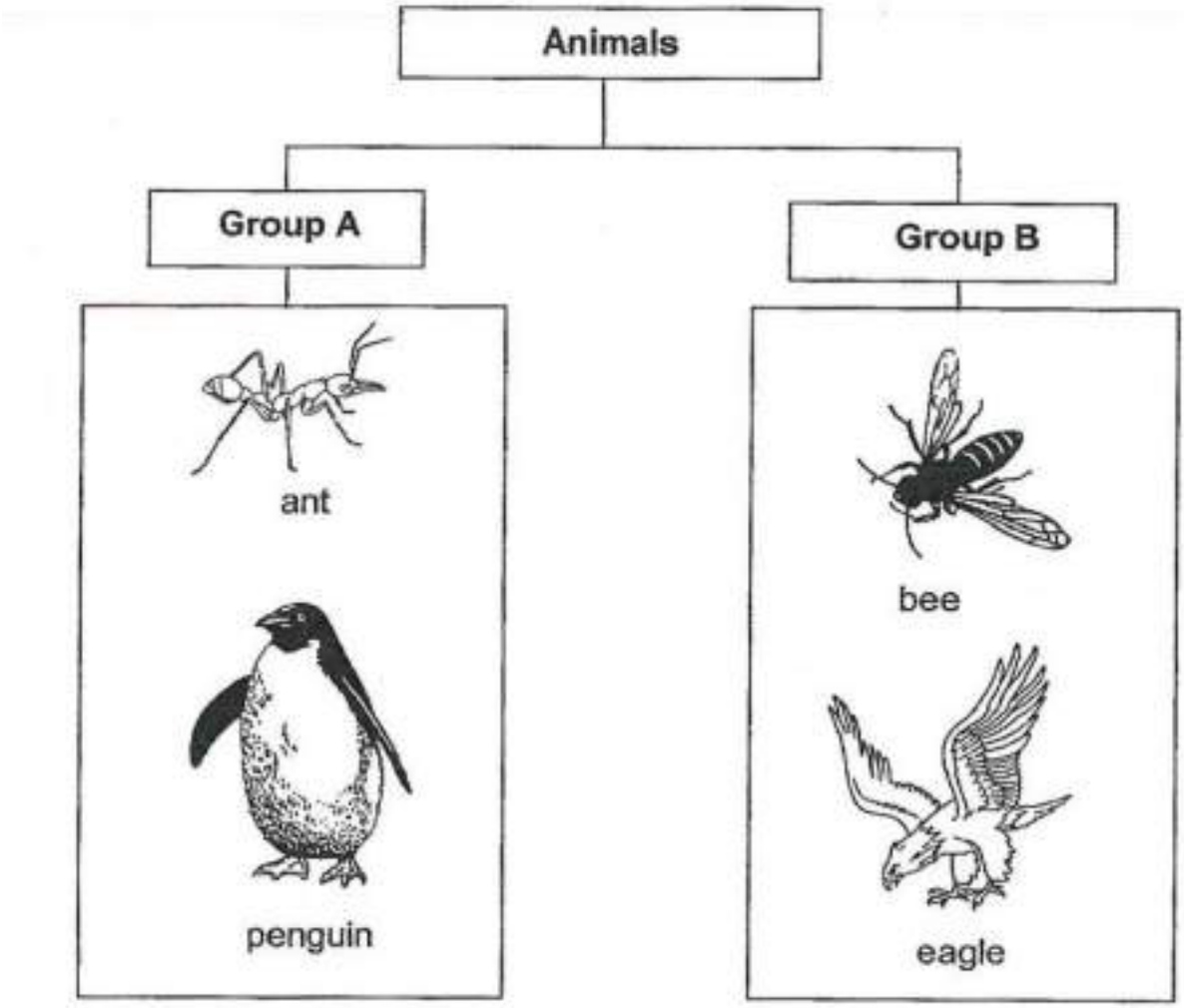


Based on the chart above, what characteristic did Riya use to group the animals?

Group A: _____

Question 37 of 67 Primary 4 Science (Term 4) 0.5 pts

Riya classified four animals in the chart below.



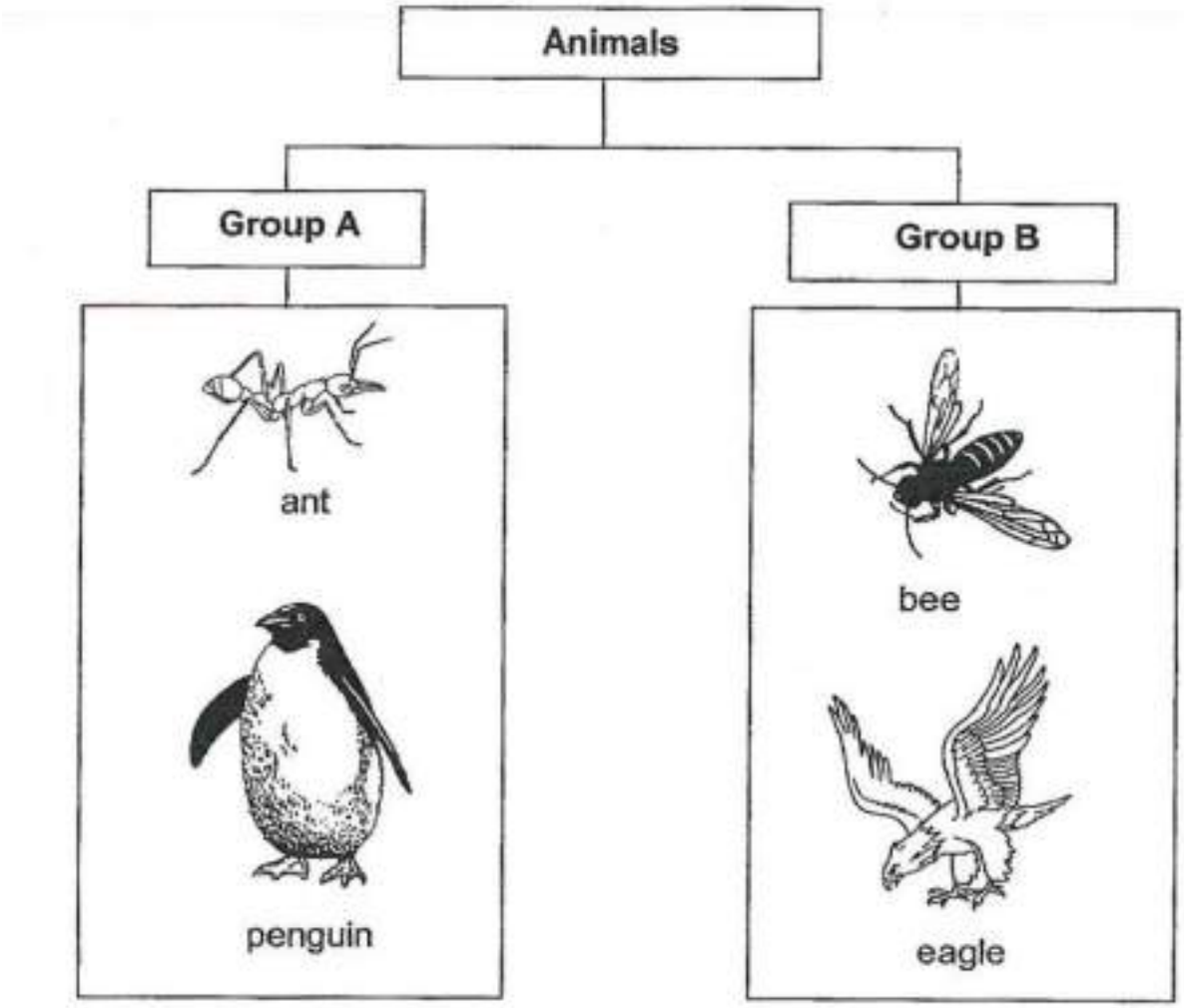
Based on the chart above, what characteristic did Riya use to group the animals?

Group B: _____

Question 38 of 67

Primary 4 Science (Term 4) 0 pts

Riya classified four animals in the chart below.



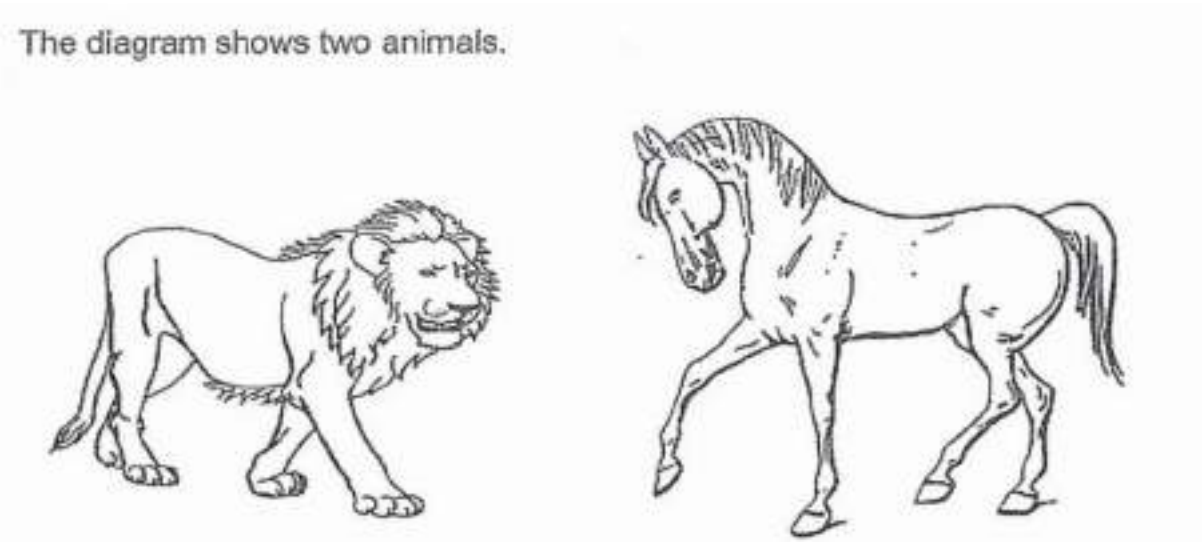
Use another characteristic to regroup all the four animals in the chart in the previous question into two groups. Give a suitable heading for each group.
(2 marks)

Group A	Group B

Question 39 of 67

Primary 4 Science (Term 4) 1 pt

The diagram shows two animals.

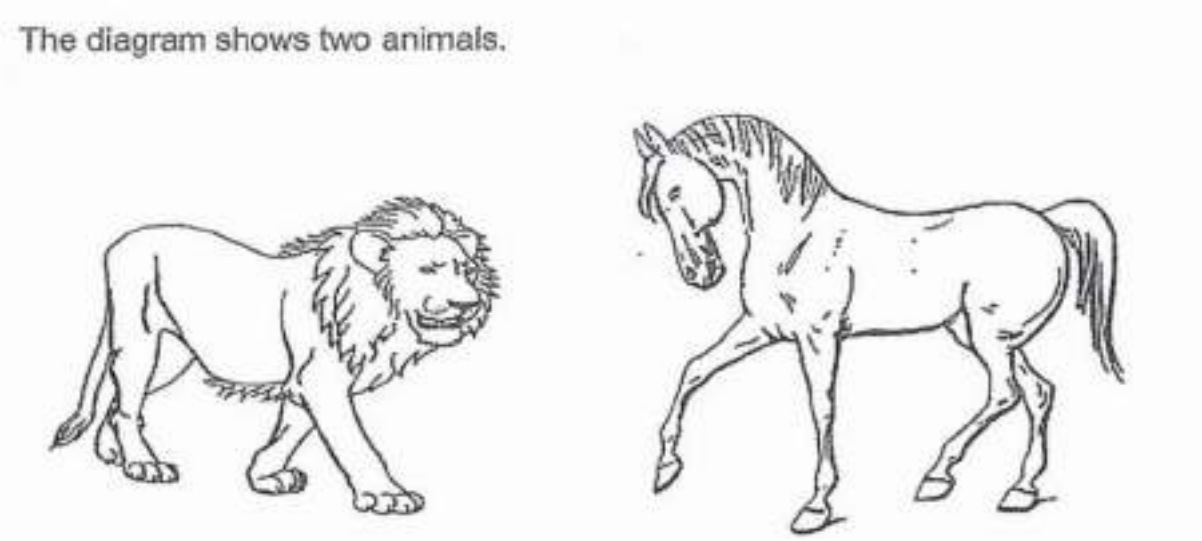


Which animal group do these animals belong to? (1 mark)

Question 40 of 67

Primary 4 Science (Term 4) 0 pts

The diagram shows two animals.



State one characteristic of this animal group. (1 mark)

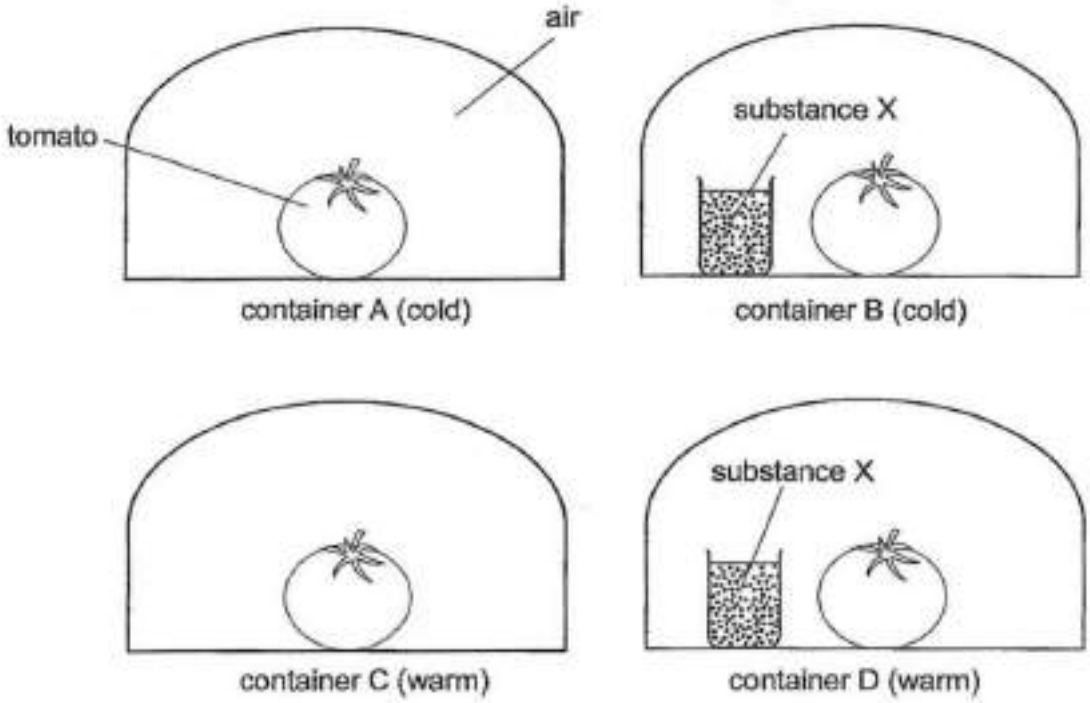
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 41 of 67

Primary 4 Science (Term 4) 0 pts

Liling placed four similar tomatoes in four identical sealed containers. She placed containers A and B in a cold place and containers C and D in a warm place. Substance X removes the air in the container.



In which container, A, B, C or D, would mould first appear on the tomato? Explain your answer. [2]

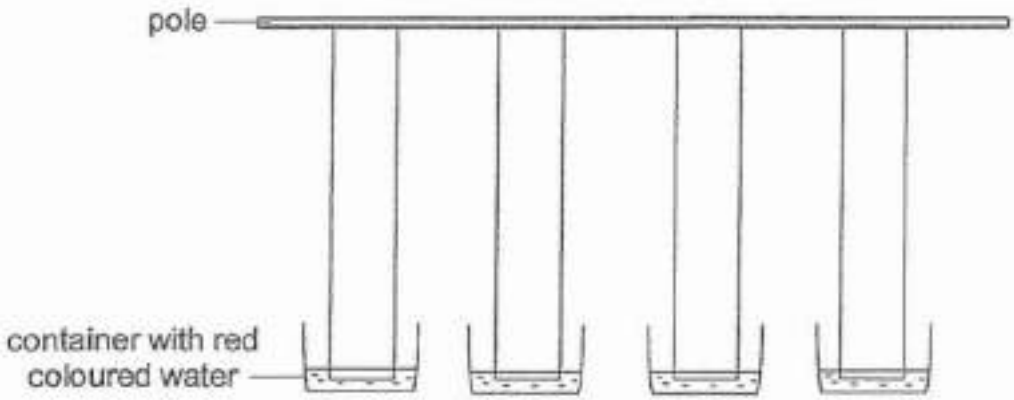
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

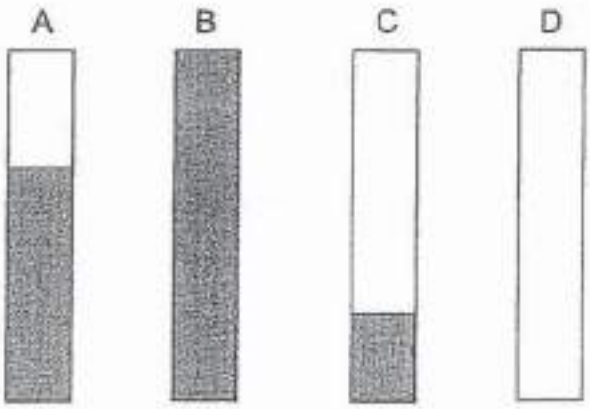
Question 42 of 67

Primary 4 Science (Term 4) 1 pt

Jia Wei used the set-up shown below to study a certain property of material. He hung four strips of fabric made of different materials from a pole. All strips had one end placed into a container of red coloured water.



The diagram below shows the shaded parts of the strip that were stained red at the end of the experiment.

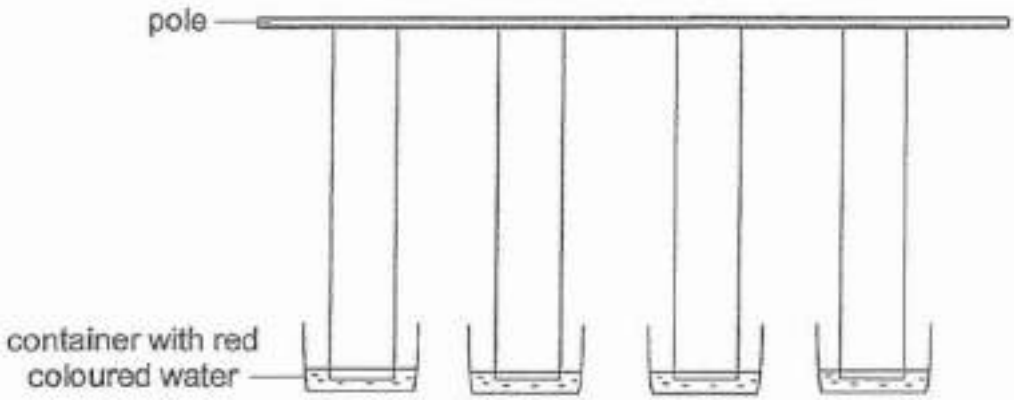


A raincoat helps to keep out the rain as shown below.

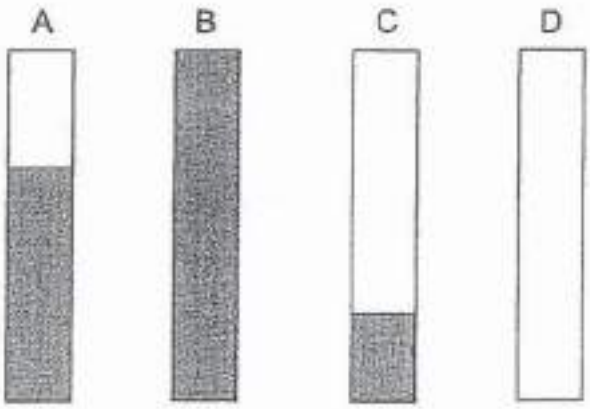
State a physical property of fabric D that makes it most suitable to be used to make a raincoat. (1 mark)

Question 43 of 67 Primary 4 Science (Term 4) 1 pt

Jia Wei used the set-up shown below to study a certain property of material. He hung four strips of fabric made of different materials from a pole. All strips had one end placed into a container of red coloured water.



The diagram below shows the shaded parts of the strip that were stained red at the end of the experiment.



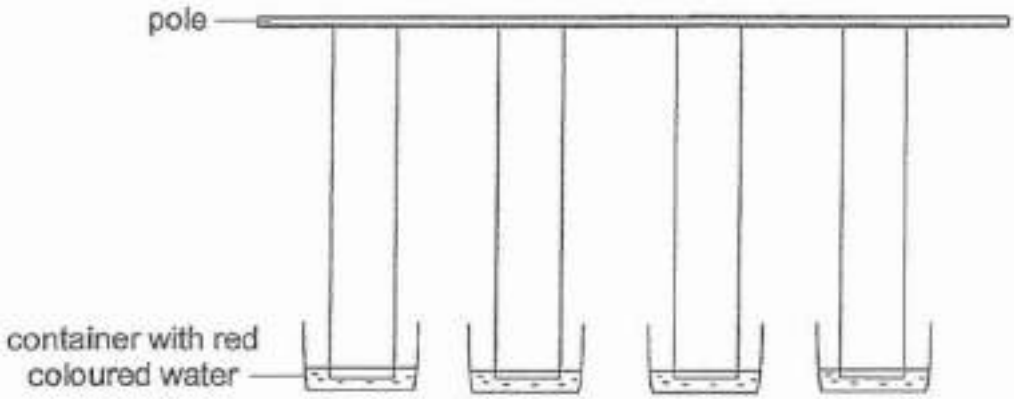
A raincoat helps to keep out the rain as shown below.

State another property of the fabric that allows the boy to move his arms easily when he is wearing the raincoat.

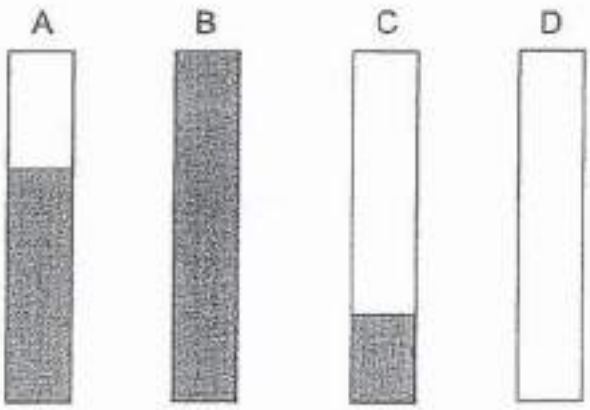
Question 44 of 67

Primary 4 Science (Term 4) 1 pt

Jia Wei used the set-up shown below to study a certain property of material. He hung four strips of fabric made of different materials from a pole. All strips had one end placed into a container of red coloured water.



The diagram below shows the shaded parts of the strip that were stained red at the end of the experiment.



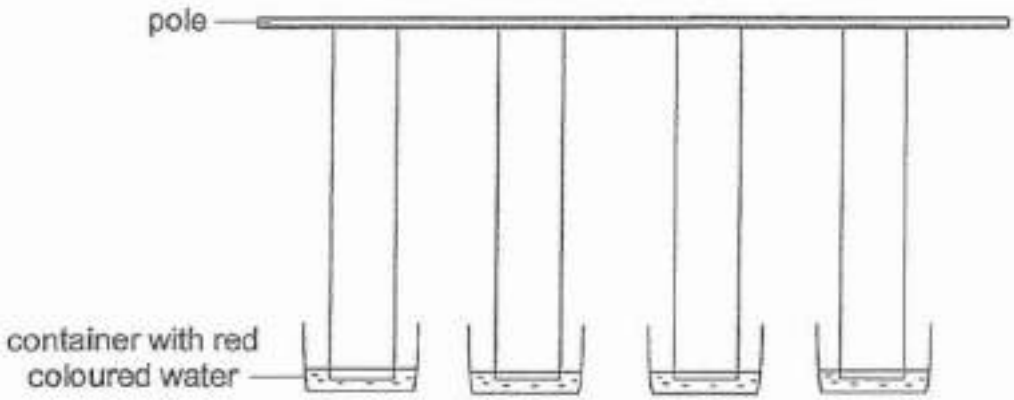
Jia Wei repeated his experiment with strips A, B, C and D. This time, he placed the strips with identical mass into a bucket of water and removed the strips from the bucket to weigh after fve minutes.

Which strip A, B, C or D would have the least mass after five minutes?

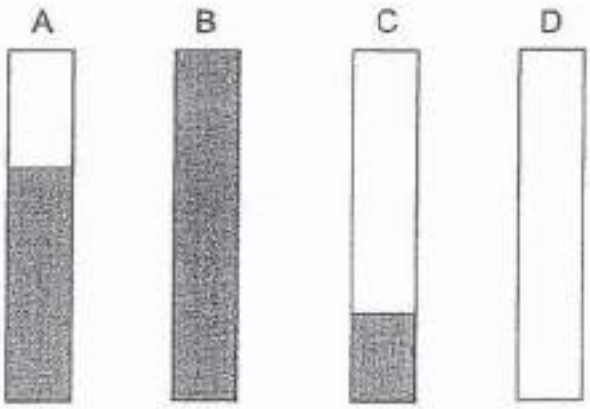
Question 45 of 67

Primary 4 Science (Term 4) 2 pts

Jia Wei used the set-up shown below to study a certain property of material. He hung four strips of fabric made of different materials from a pole. All strips had one end placed into a container of red coloured water.



The diagram below shows the shaded parts of the strip that were stained red at the end of the experiment.



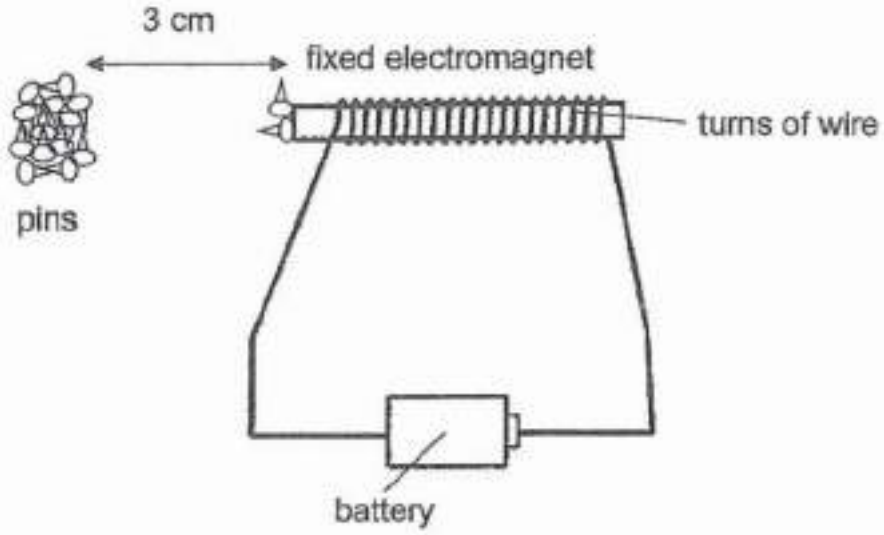
Jia Wei conducted another experiment using the four strips. he wanted to find out if the thickness of a strip of fabric C affects the amount of water absorbed by the strip.

- **A)** length of the strip
- **B)** material of the strip
- **C)** thickness of the strip
- **D)** amount of water absorbed by the strip

Question 46 of 67

Primary 4 Science (Term 4) 0 pts

Ellie wanted to investigate how the number of batteries affects the strength of the electromagnet using the set-up below.



She placed the electromagnet 3 cm from some pins and counted the number of pins that were attracted to it.

Her results are shown below.

Number of batteries	Number of pins attracted to electromagnet
1	2
2	4
3	6
4	8

What is the relationship between the number of batteries and the strength of the electromagnet? (1 mark)

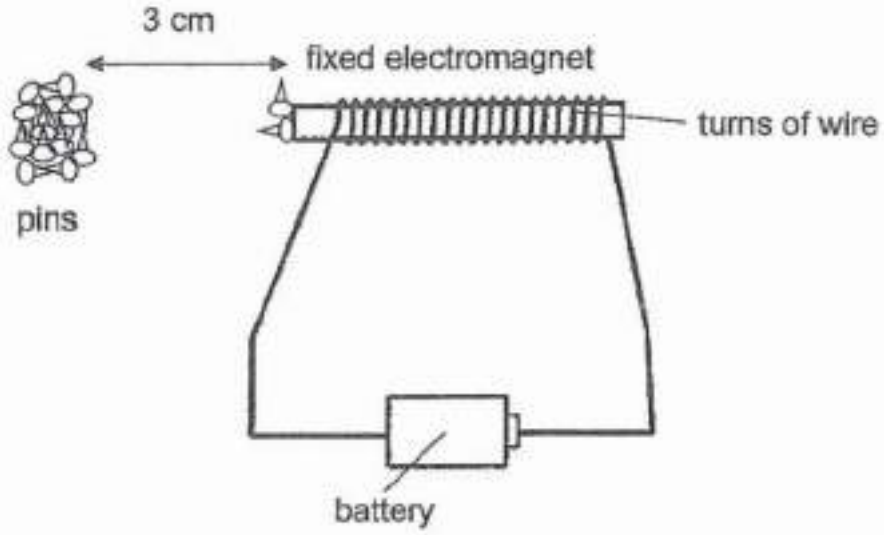
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 47 of 67

Primary 4 Science (Term 4) 0 pts

Ellie wanted to investigate how the number of batteries affects the strength of the electromagnet using the set-up below.



She placed the electromagnet 3 cm from some pins and counted the number of pins that were attracted to it.

Her results are shown below.

Number of batteries	Number of pins attracted to electromagnet
1	2
2	4
3	6
4	8

Using the same set-up above, suggest another way Ellie could increase the strength of the electromagnet. (1 mark)

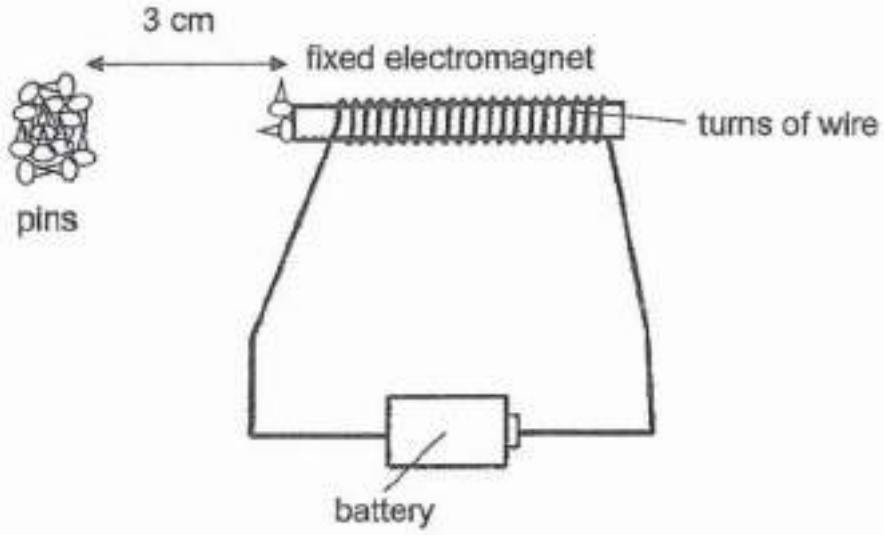
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 67

Primary 4 Science (Term 4) 1 pt

Ellie wanted to investigate how the number of batteries affects the strength of the electromagnet using the set-up below.



She placed the electromagnet 3 cm from some pins and counted the number of pins that were attracted to it.

Her results are shown below.

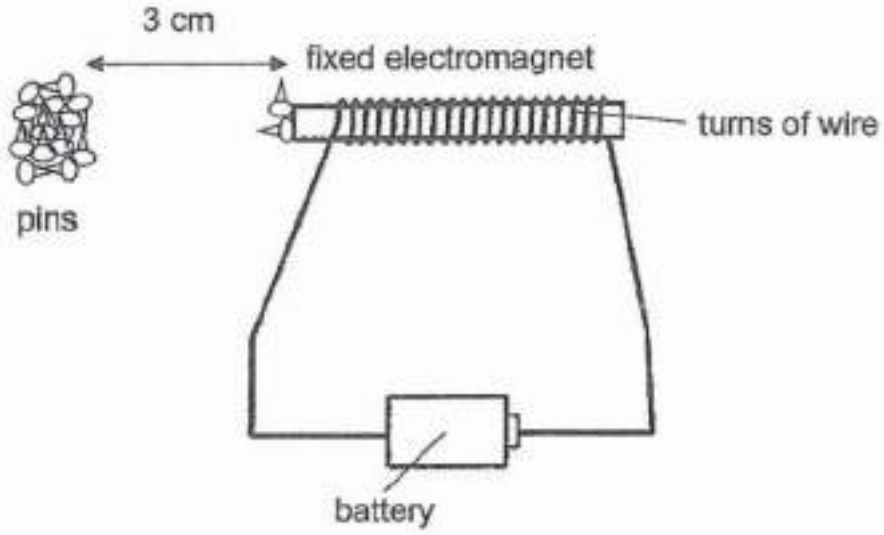
Number of batteries	Number of pins attracted to electromagnet
1	2
2	4
3	6
4	8

Ellie repeated her experiment and placed the pins 6cm away from the electromagnet. Would the magnetic attraction on the pins be stronger, weaker or the same as before? (1 mark)

Question 49 of 67

Primary 4 Science (Term 4) 0.5 pts

Ellie wanted to investigate how the number of batteries affects the strength of the electromagnet using the set-up below.

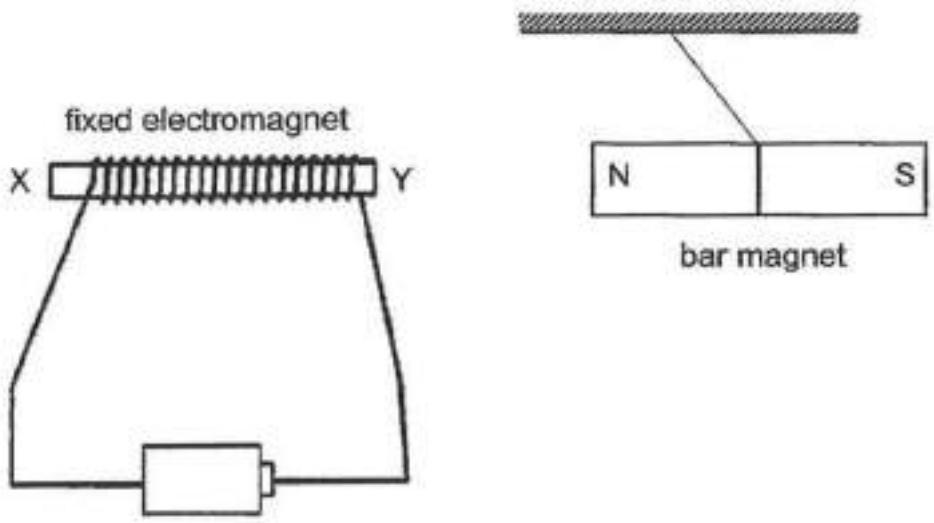


She placed the electromagnet 3 cm from some pins and counted the number of pins that were attracted to it.

Her results are shown below.

Number of batteries	Number of pins attracted to electromagnet
1	2
2	4
3	6
4	8

When a bar magnet was placed near the electromagnet, it moved away from the electromagnet as shown below.

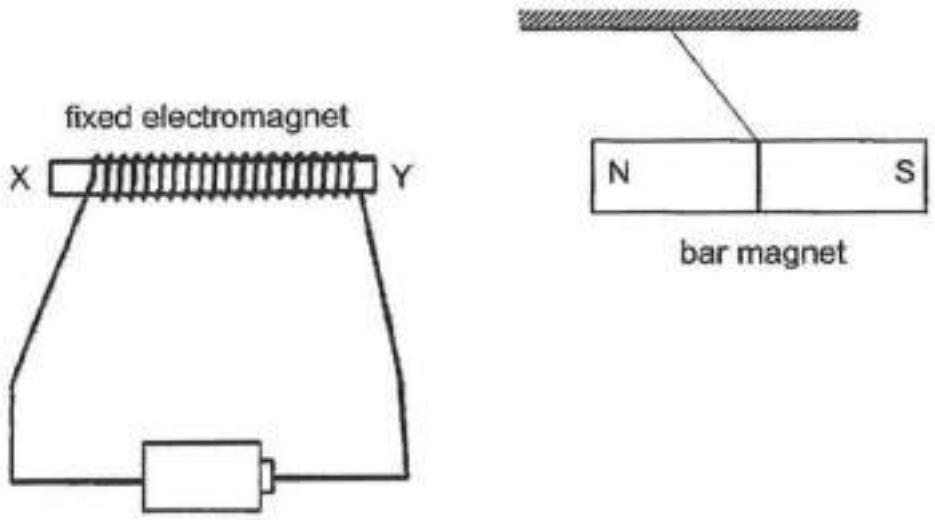


Name pole X of the electromagnet.

Question 50 of 67

Primary 4 Science (Term 4) 0.5 pts

When a bar magnet was placed near the electromagnet, it moved away from the electromagnet as shown below.

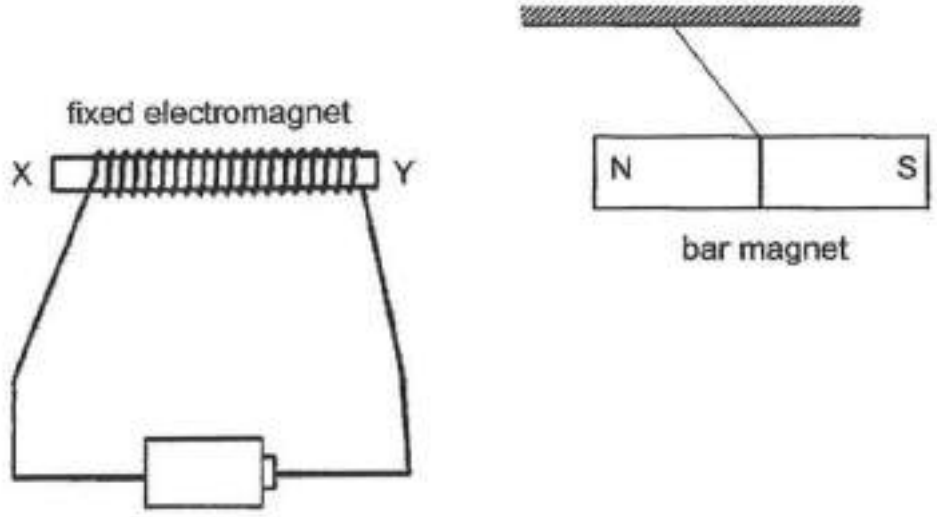


Name pole Y of the electromagnet.

Question 51 of 67

Primary 4 Science (Term 4) 0 pts

When a bar magnet was placed near the electromagnet, it moved away from the electromagnet as shown below.



Explain your answer to the previous two questions. (1 mark)

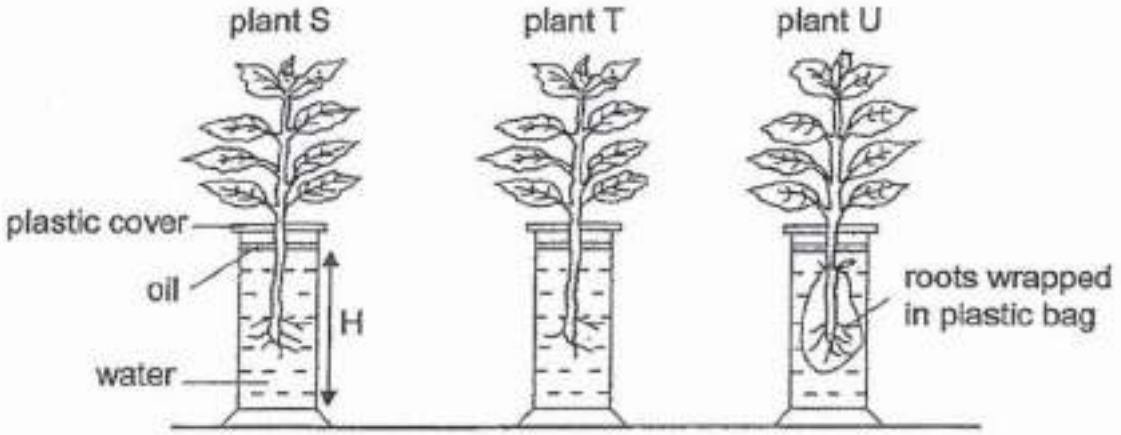
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 52 of 67

Primary 4 Science (Term 4) 1 pt

Reyna conducted an experiment in a classroom using plants S, T and U as shown. She recorded the water level, H, at regular time intervals.



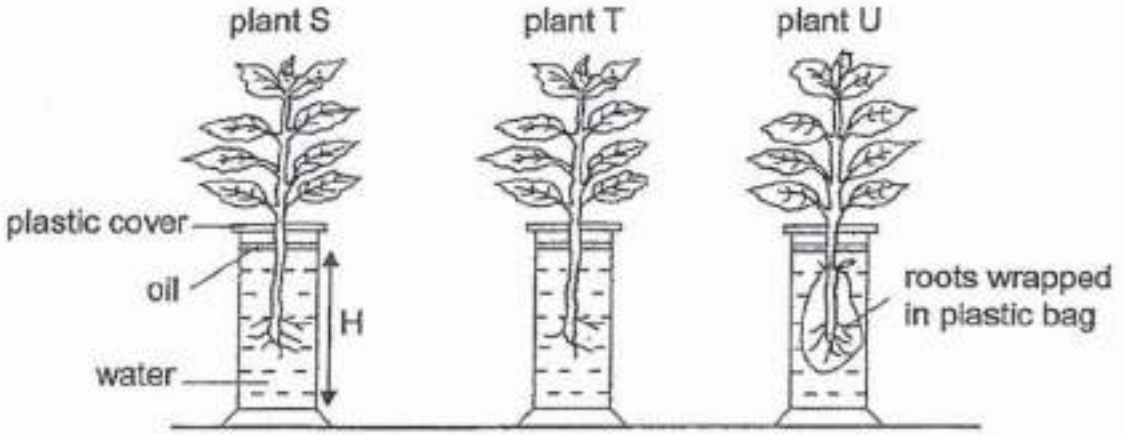
Which two plants should be compared to show that the roots of the plant absorb water?

Plants _____ and _____

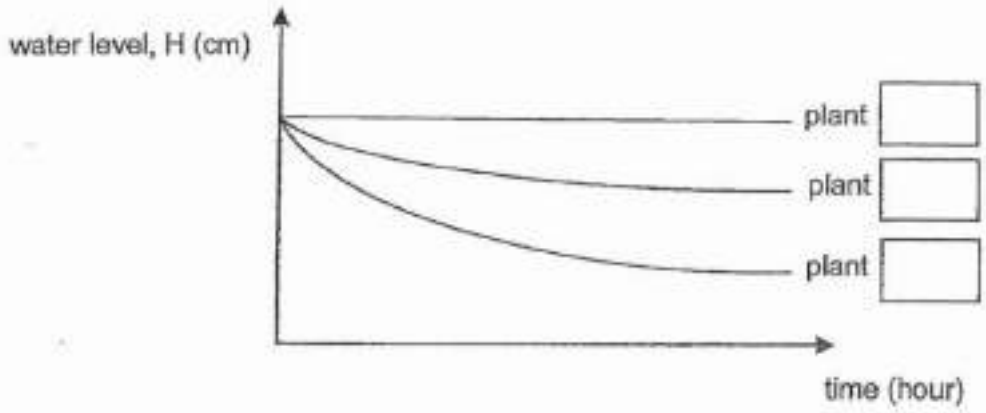
Question 53 of 67

Primary 4 Science (Term 4) 1 pt

Reyna conducted an experiment in a classroom using plants S, T and U as shown. She recorded the water level, H, at regular time intervals.



Identify the line that represents the results obtained for the plants in the graph below. Fill in the boxes with plants S, T and U. [1]

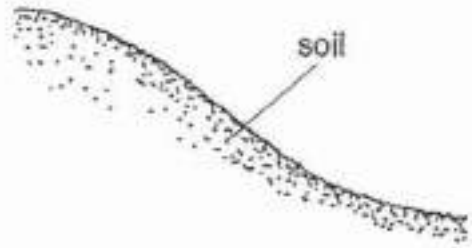


State your answer in accordance starting from the top down.

Question 54 of 67

Primary 4 Science (Term 4) 0 pts

The diagram below shows part of a slope.



A farmer wanted to grow a type of plant on the slope.

Which of the following plants, D or E, can the farmer grow so that the plants would not be easily washed away by the heavy rain? Explain your answer. [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.

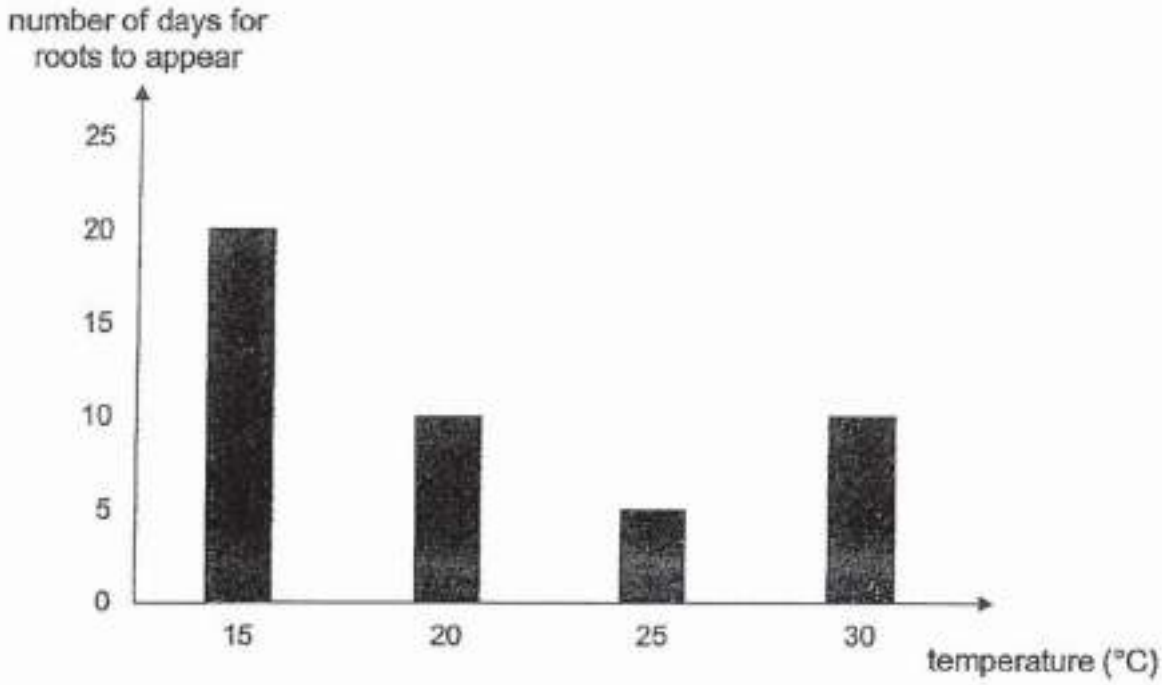
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 55 of 67

Primary 4 Science (Term 4) 1 pt

Ah Seng wanted to find out the most suitable temperature on the growth of seeds. He planted four seeds, each at a different temperature and counted the number of days for roots to appear.

The graph below shows his results.



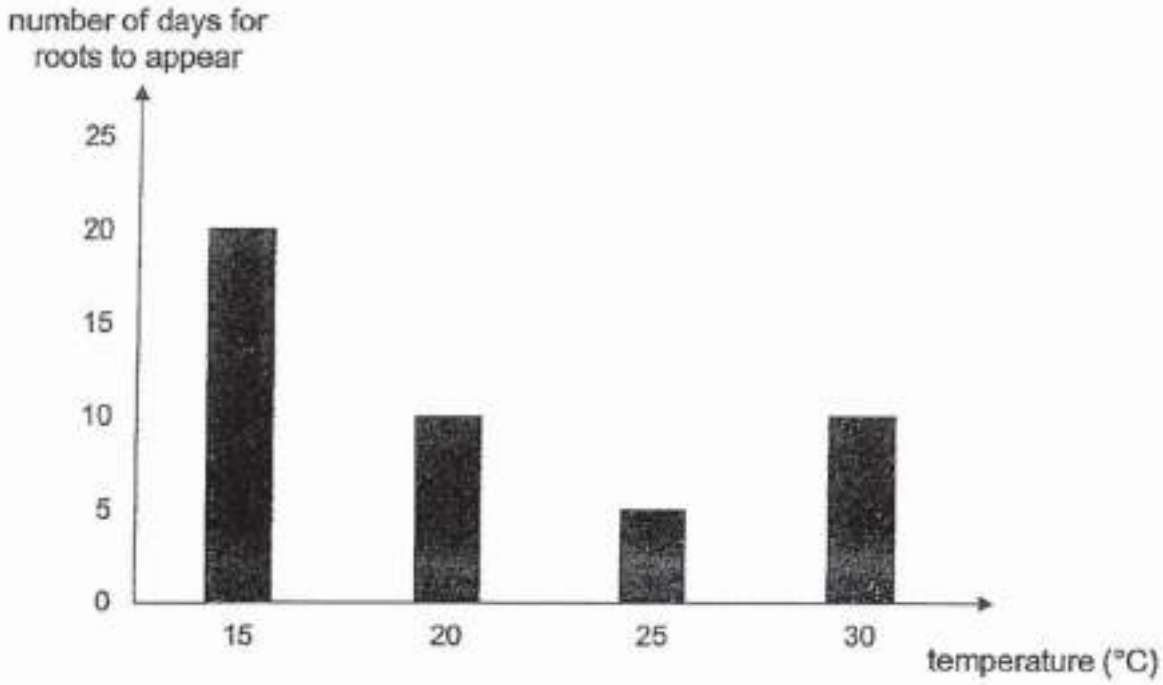
Based on Ah Seng's results, at which of the above temperature did the seed grow the fastest? (1 mark)

Question 56 of 67

Primary 4 Science (Term 4) 1 pt

Ah Seng wanted to find out the most suitable temperature on the growth of seeds. He planted four seeds, each at a different temperature and counted the number of days for roots to appear.

The graph below shows his results.



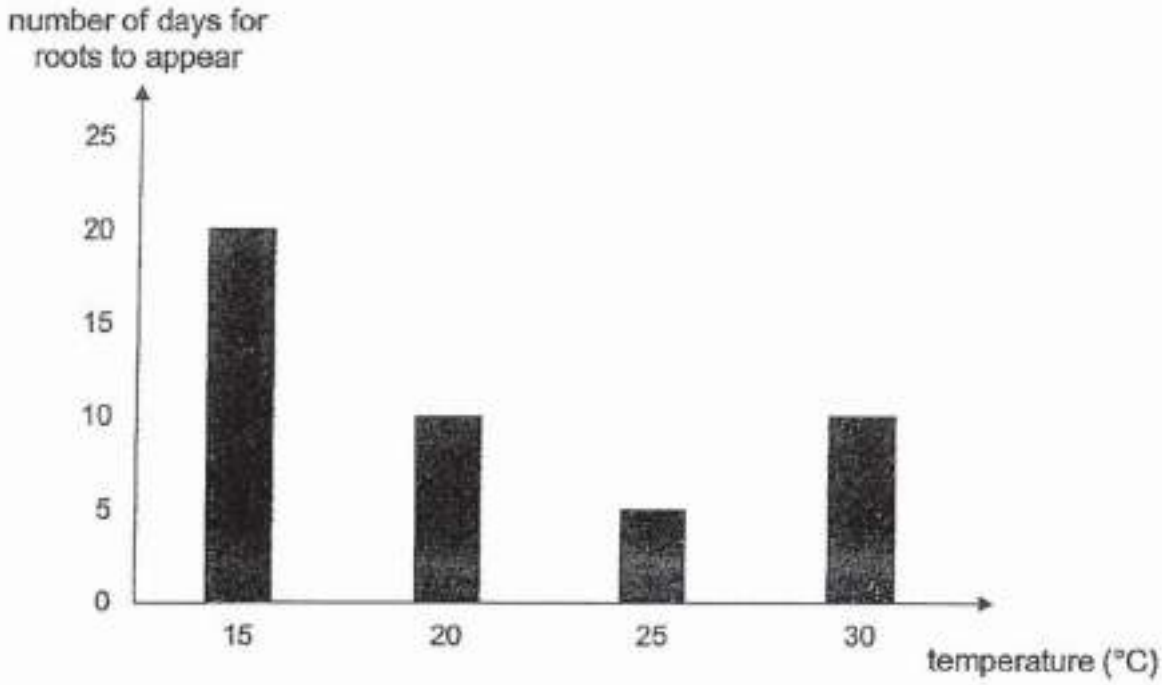
Other than warmth, name another condition that the seeds need to grow.

Question 57 of 67

Primary 4 Science (Term 4) 1 pt

Ah Seng wanted to find out the most suitable temperature on the growth of seeds. He planted four seeds, each at a different temperature and counted the number of days for roots to appear.

The graph below shows his results.



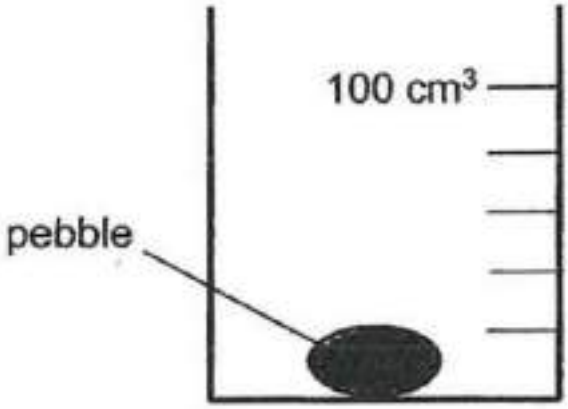
The diagram below shows one of the seeds that Ah Seng observed after some time.

Which stage of the plant's life cycle did he observe? [1]

Question 58 of 67 Primary 4 Science (Term 4) 1 pt

A pebble was placed in a dish as shown below.

Jannah transferred the pebble into a beaker as shown below.

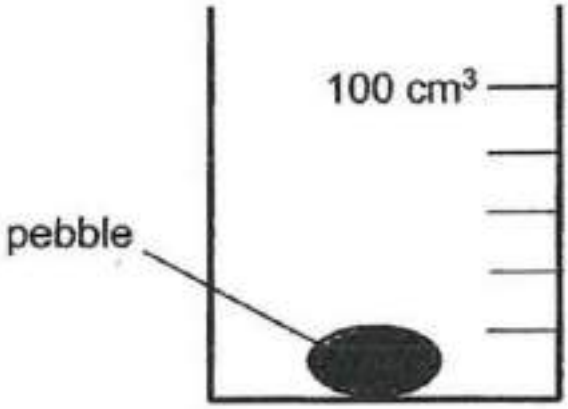


Based on her observation, state if the pebble is solid, liquid or gas and give a reason for your answer. (1 mark)

Question 59 of 67 Primary 4 Science (Term 4) 0 pts

A pebble was placed in a dish as shown below.

Jannah transferred the pebble into a beaker as shown below.



Jannah poured some water into the beaker as shown in Diagram 1. Next, she removed the pebble from the beaker in Diagram 2.

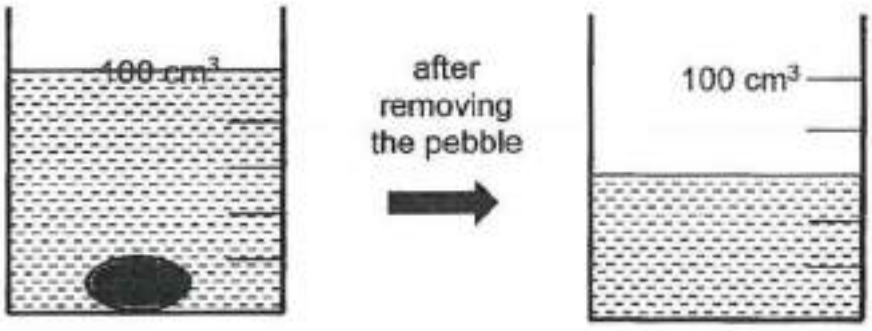


Diagram 1 Diagram 2

Explain why the water level dropped after the pebble was removed from the beaker in Diagram 2. (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 60 of 67

Primary 4 Science (Term 4) 1 pt

Jannah poured some water into the beaker as shown in Diagram 1. Next, she removed the pebble from the beaker in Diagram 2.

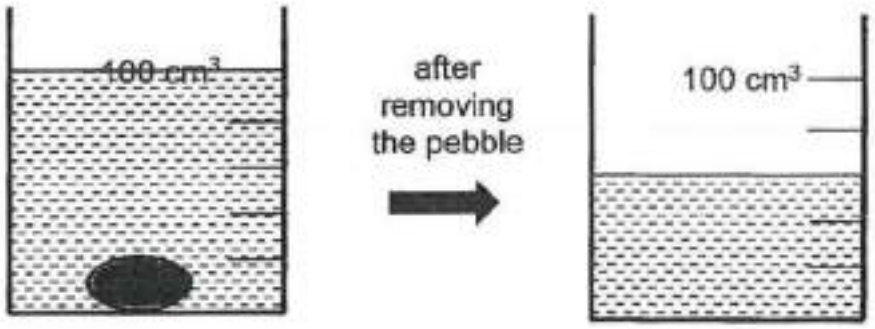


Diagram 1 Diagram 2

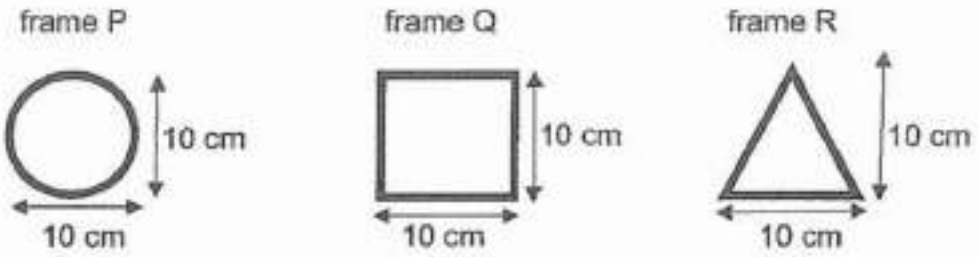
What is the volume of the pebble?

_____cm^3

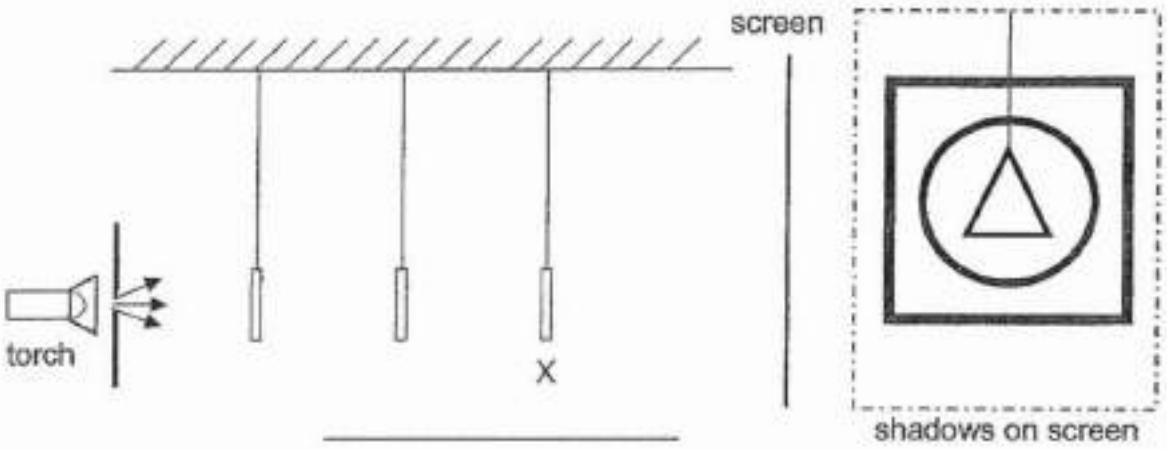
Question 61 of 67

Primary 4 Science (Term 4) 0 pts

Kumar had three wooden frames as shown below.



He hung the frames between a torch and a screen. The shadows formed on the screen are as shown below.



When the torch was switched on, Kumar was able to see the wooden frames in a dark room. Explain why. (1 mark)

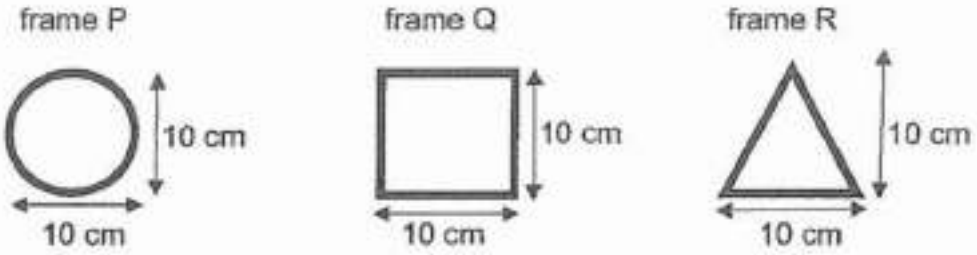
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

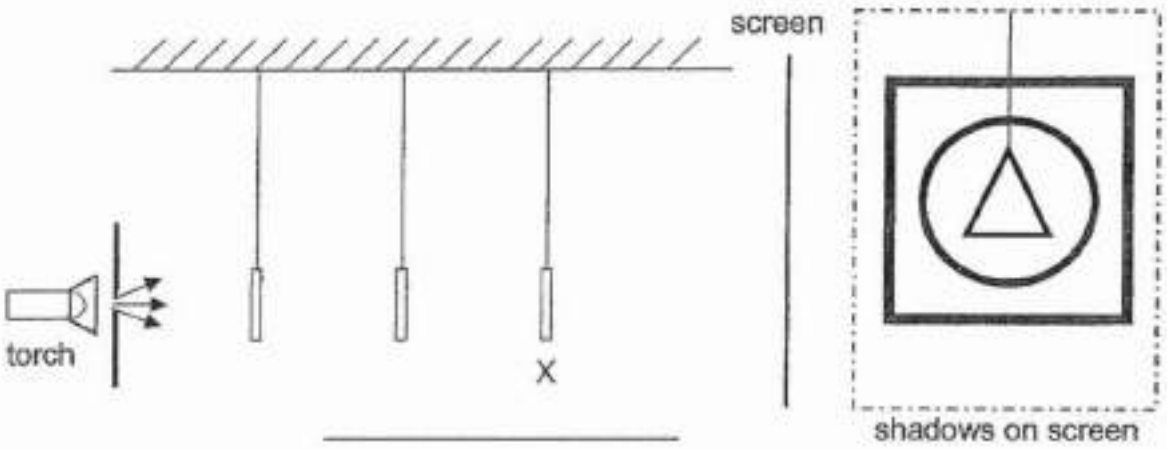
Question 62 of 67

Primary 4 Science (Term 4) 1 pt

Kumar had three wooden frames as shown below.



He hung the frames between a torch and a screen. The shadows formed on the screen are as shown below.



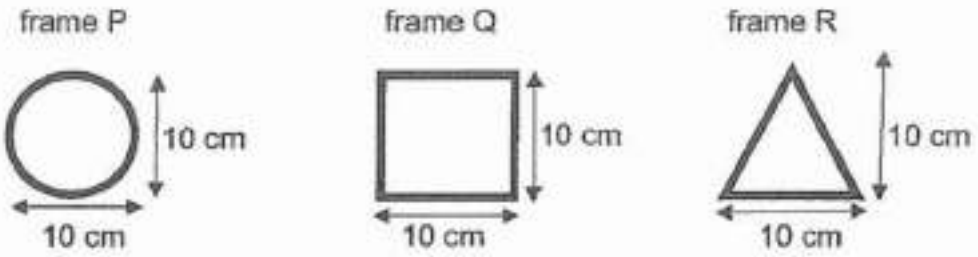
Which frame was hung at position X?

Frame _____

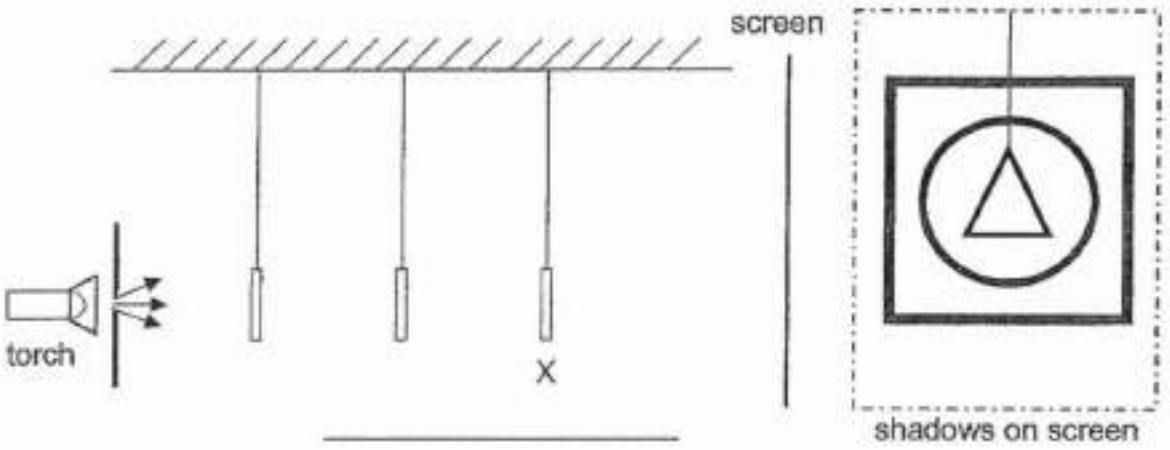
Question 63 of 67

Primary 4 Science (Term 4) 0 pts

Kumar had three wooden frames as shown below.



He hung the frames between a torch and a screen. The shadows formed on the screen are as shown below.



Shadows were formed on the screen. State a property of light that causes shadows to form. (1 mark)

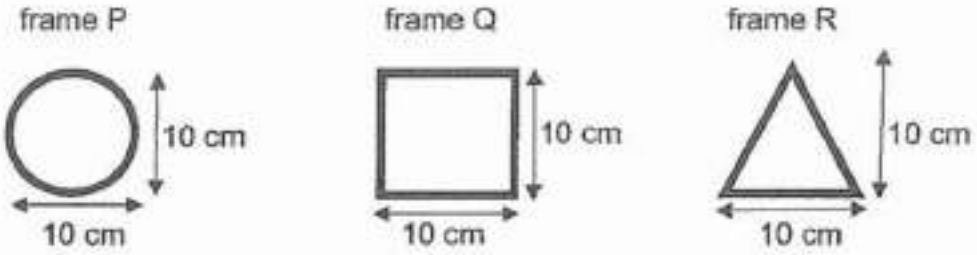
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

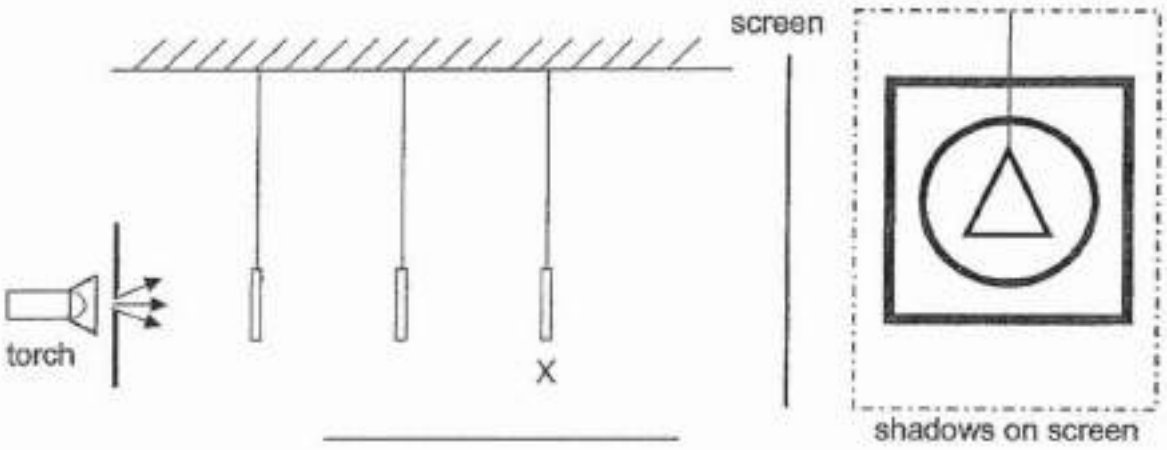
Question 64 of 67

Primary 4 Science (Term 4) 1 pt

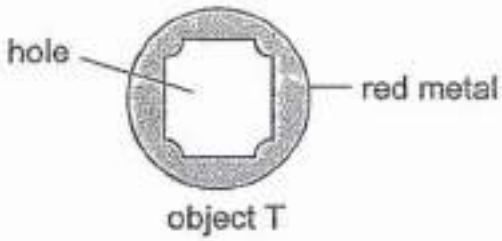
Kumar had three wooden frames as shown below.



He hung the frames between a torch and a screen. The shadows formed on the screen are as shown below.

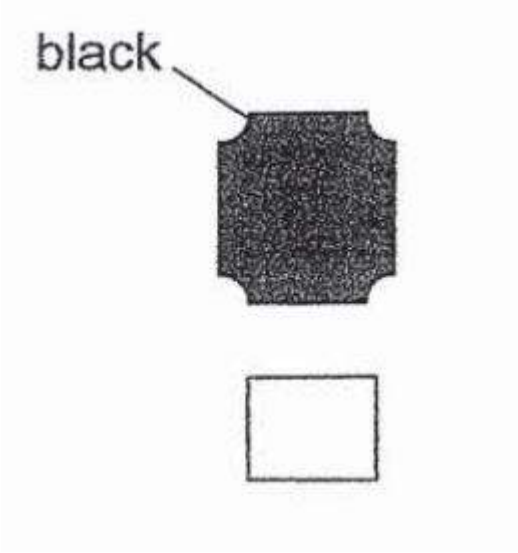


Kumar removed all the wooden frames and hung object T between the torch and the screen.

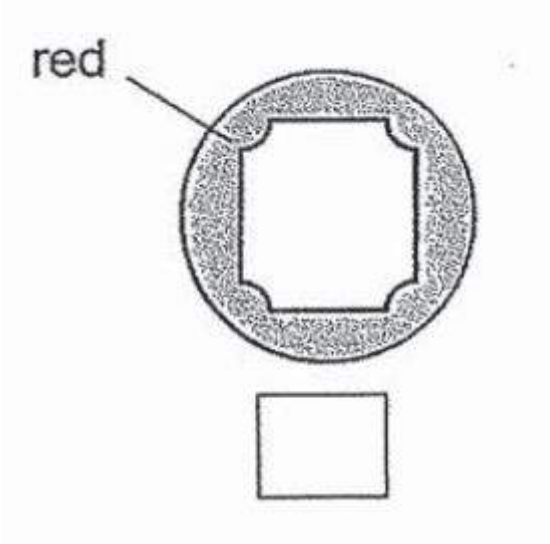


Which of the following shadows could be formed by object T?

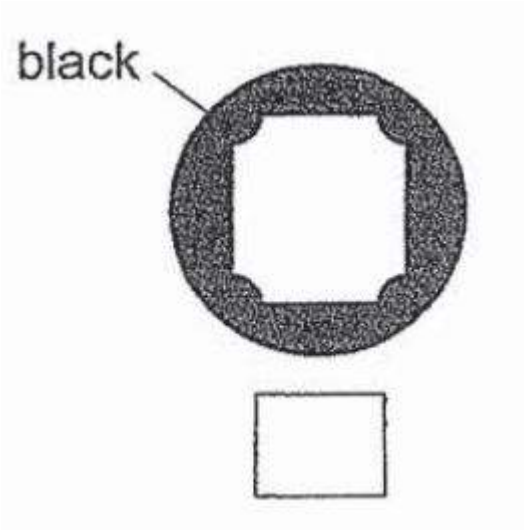
A)



B)



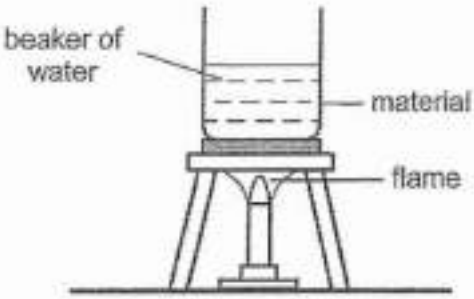
C)



Question 65 of 67

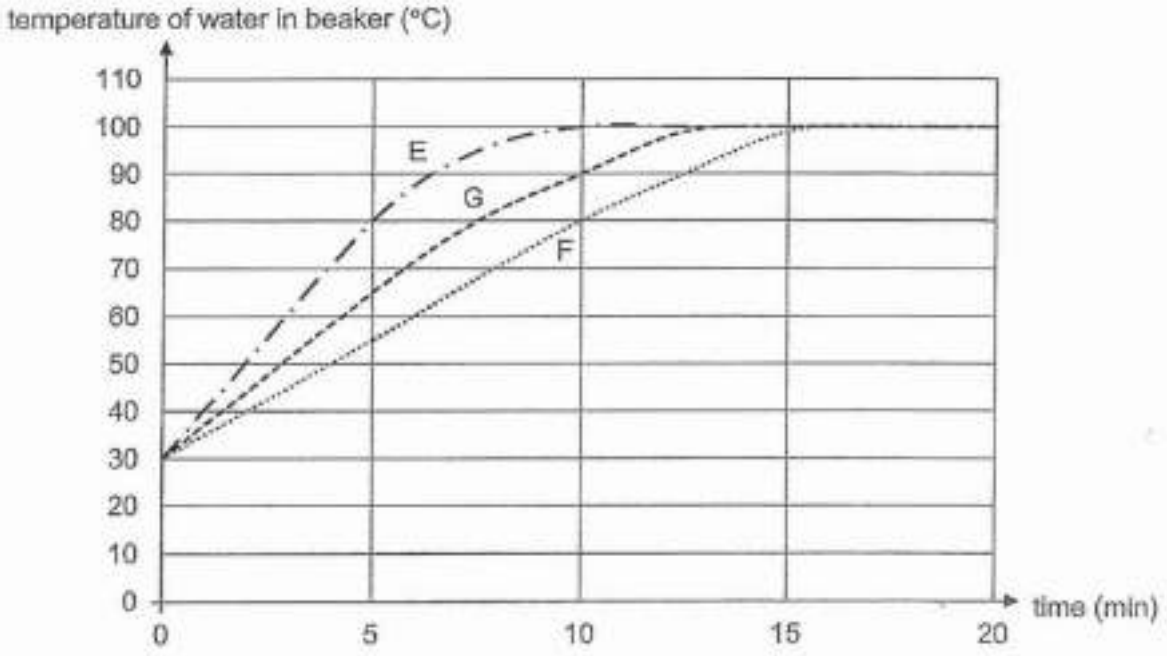
Primary 4 Science (Term 4) 1 pt

Peter conducted an experiment using the set-up shown below.



He poured the same volume of water into three identical beakers. He recorded the time taken for water to boil when materials E, F and G were placed below the beaker of water.

His results are shown in the graph below.



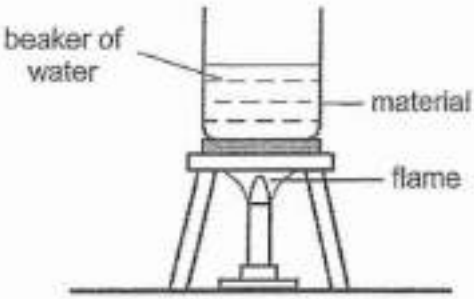
What was the temperature of the water at the start of the experiment?

_____ °C

Question 66 of 67

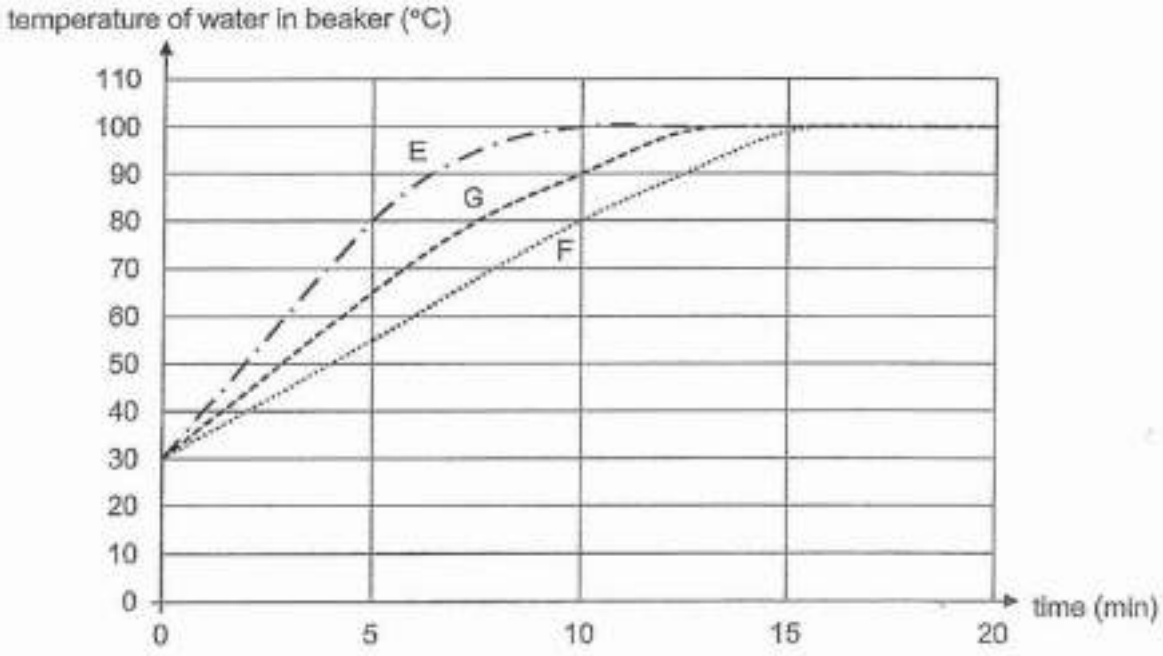
Primary 4 Science (Term 4) 0 pts

Peter conducted an experiment using the set-up shown below.



He poured the same volume of water into three identical beakers. He recorded the time taken for water to boil when materials E, F and G were placed below the beaker of water.

His results are shown in the graph below.



Explain why the temperature of the water in all three beakers change with time. (1 mark)

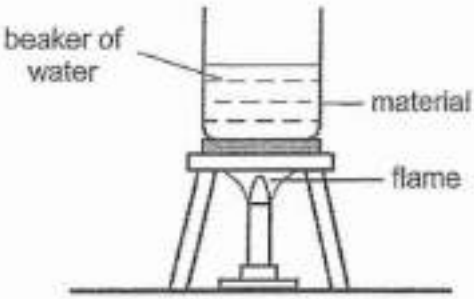
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 67 of 67

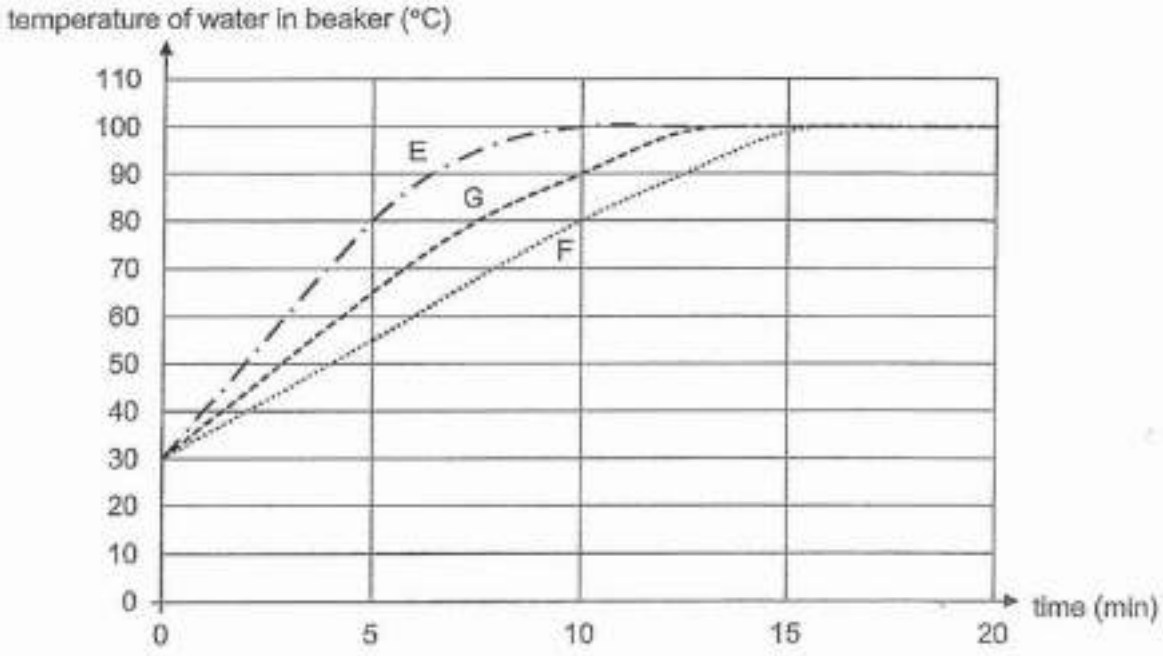
Primary 4 Science (Term 4) 2 pts

Peter conducted an experiment using the set-up shown below.



He poured the same volume of water into three identical beakers. He recorded the time taken for water to boil when materials E, F and G were placed below the beaker of water.

His results are shown in the graph below.



Peter wants to bring a container of cold drinks for a picnic. He wants to keep the drinks cold for the longest period of time.

Based on the results, which material, E, F or G is most suitable for wrapping the container? Explain your answer. (2 marks)