

**Test:** Primary 4 Science (Term 4) - Henry Park (2020)

**Points:** 76 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**

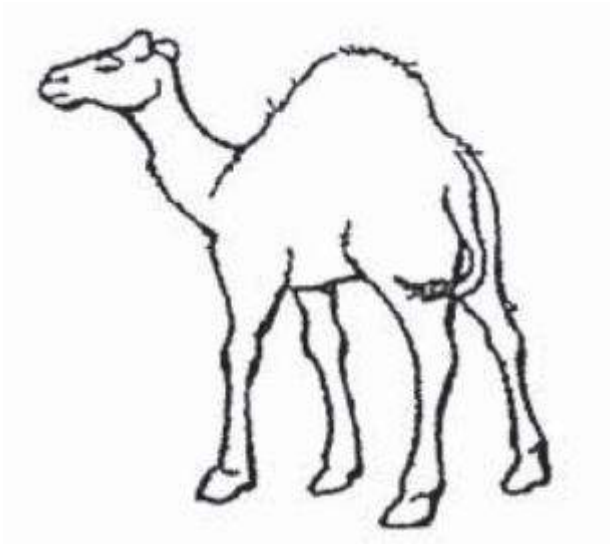
Primary 4 Science (Term 4)

2 pts

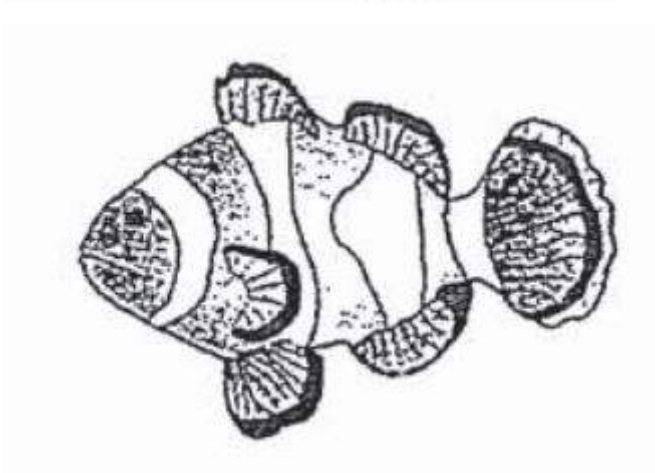
For each question, four options are given. One of them is the correct answer. Make your choice and choose the correct answer below. (56 marks)

Which one of the following is not a living thing?

A)



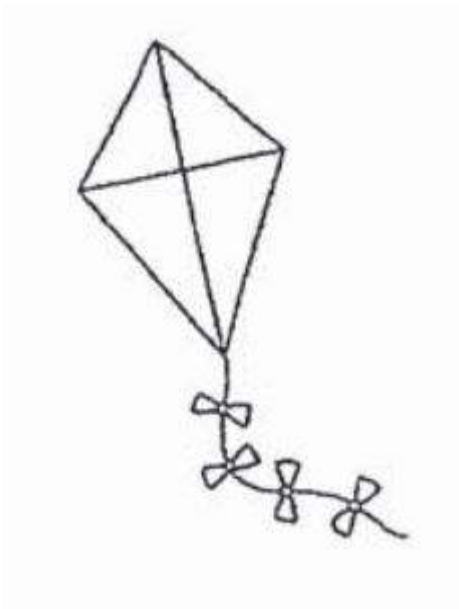
B)



C)



D)

**Question 2 of 67**

Primary 4 Science (Term 4)

2 pts

A snail hides itself in its shell when touched.



This shows that the snail is a living thing because it can \_\_\_\_\_.

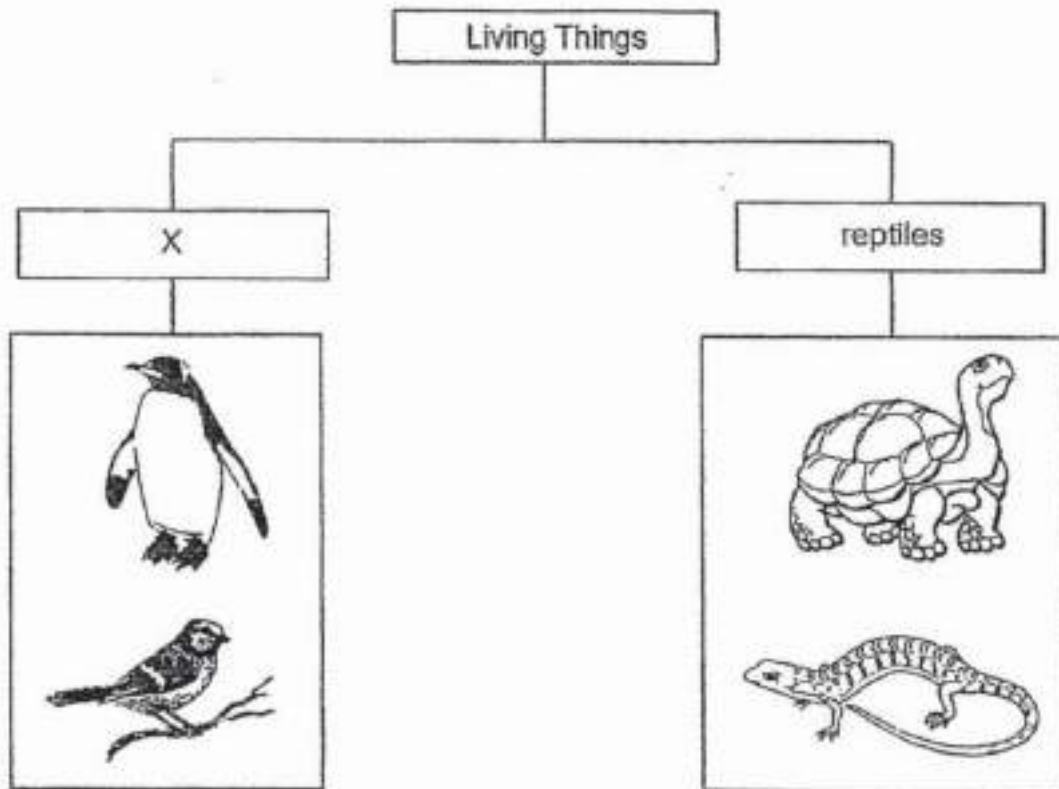
- A) grow
- B) move
- C) respond
- D) reproduce

## Question 3 of 67

Primary 4 Science (Term 4)

2 pts

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



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

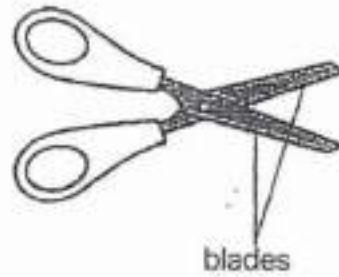
- A) birds
- B) insects
- C) animals
- D) mammals

**Question 4 of 67**

Primary 4 Science (Term 4)

2 pts

The diagram shows a pair of scissors.



Metal is used to make the blades of the scissors because metal \_\_\_\_\_.

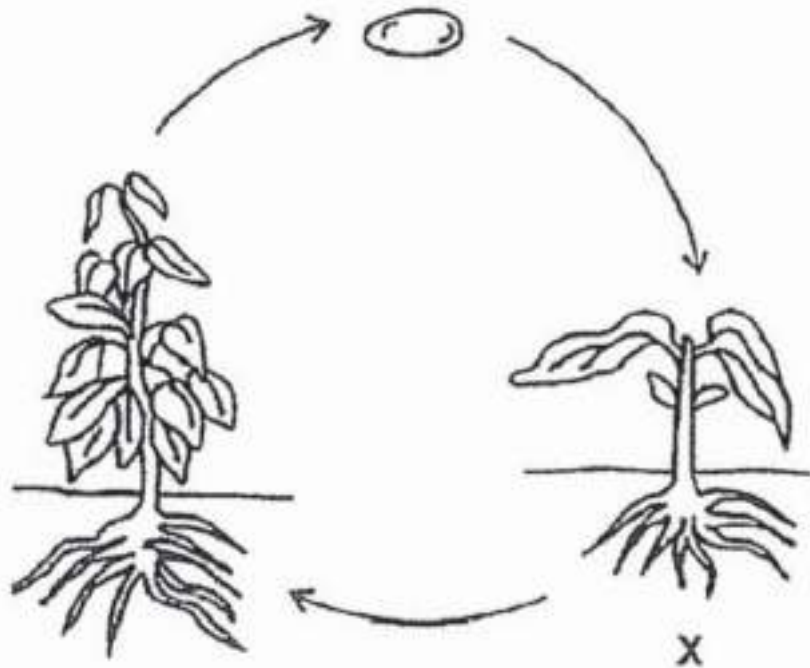
- 
- A) is strong
  - B) is not waterproof
  - C) bends easily without breaking
  - D) allows some light to pass through

**Question 5 of 67**

Primary 4 Science (Term 4)

2 pts

The diagram shows the life cycle of a plant.



What is the stage marked X?

- A) egg
- B) seed
- C) adult plant
- D) young plant

**Question 6 of 67**

Primary 4 Science (Term 4)

2 pts

Which animal has a pupa as a stage in its life cycle?

- A) frog
- B) beetle
- C) chicken
- D) cockroach

**Question 7 of 67**

Primary 4 Science (Term 4)

2 pts

Which one of the following properties is true for both air and a marble?

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- A)** They can be seen.
- B)** They occupy space.
- C)** They have definite shapes.
- D)** They have definite volumes.

**Question 8 of 67**

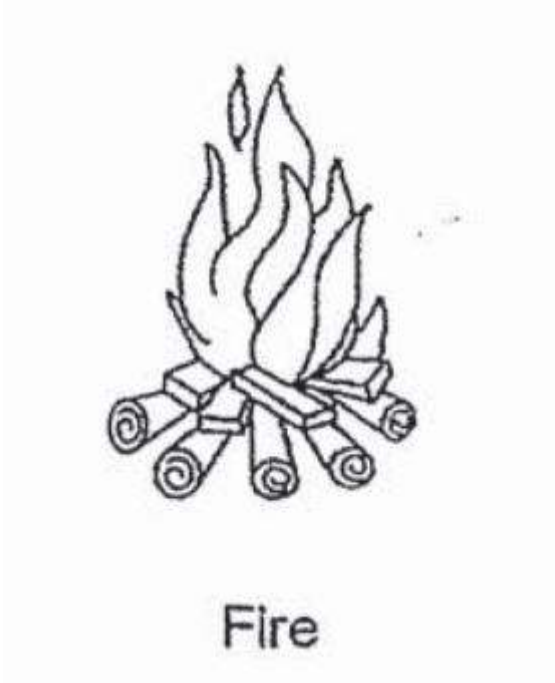
Primary 4 Science (Term 4)

2 pts

Which one of the following is a source of light?

---

A)



B)



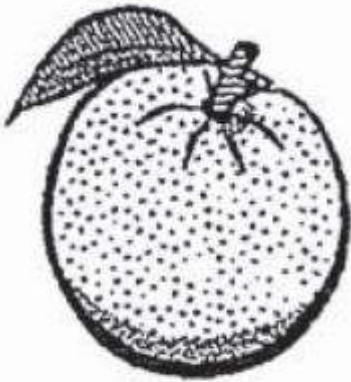
C)





A leaf

D)



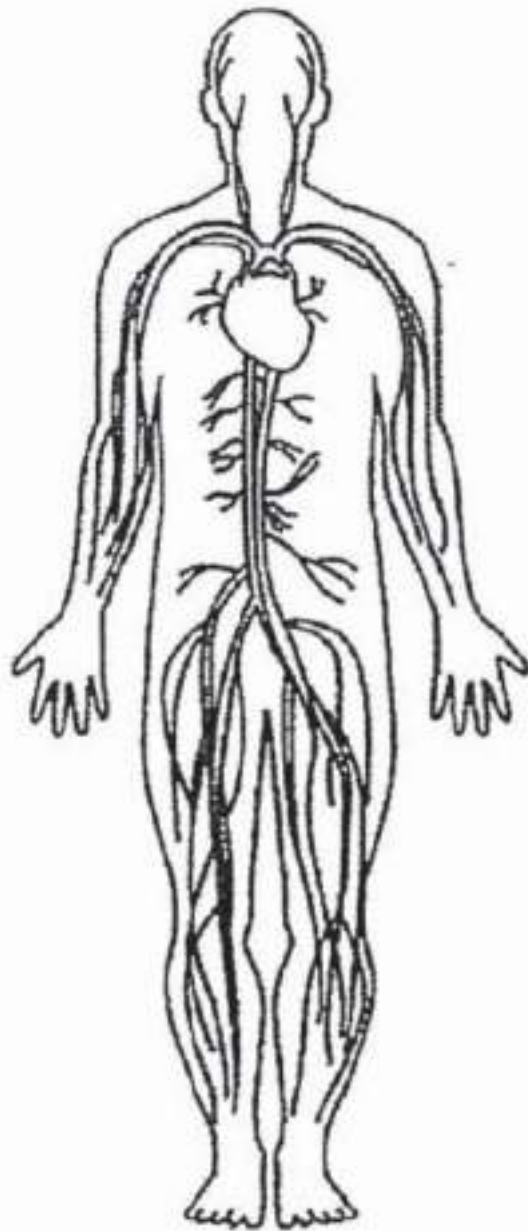
An orange

**Question 9 of 67**

Primary 4 Science (Term 4)

2 pts

Which organ system is shown in the diagram?



- A) skeletal system
- B) digestive system
- C) muscular system
- D) circulatory system

**Question 10 of 67**

Primary 4 Science (Term 4) 2 pts

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

- A) A glass rod
- B) A metal rod
- C) A plastic rod
- D) A wooden rod

**Question 11 of 67**

Primary 4 Science (Term 4) 2 pts

The table shows Tanya's answers to three questions about matter.

Question		Answer
A	Does it have mass?	Yes
B	Does it occupy space?	No
C	Can it exist as a solid, a liquid or a gas?	Yes

Which of the questions were answered correctly?

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

**Question 12 of 67**

Primary 4 Science (Term 4)

2 pts

Mrs Dill hung her clothes out to dry in her backyard on a sunny day.



What is the main source of heat that dries the clothes?

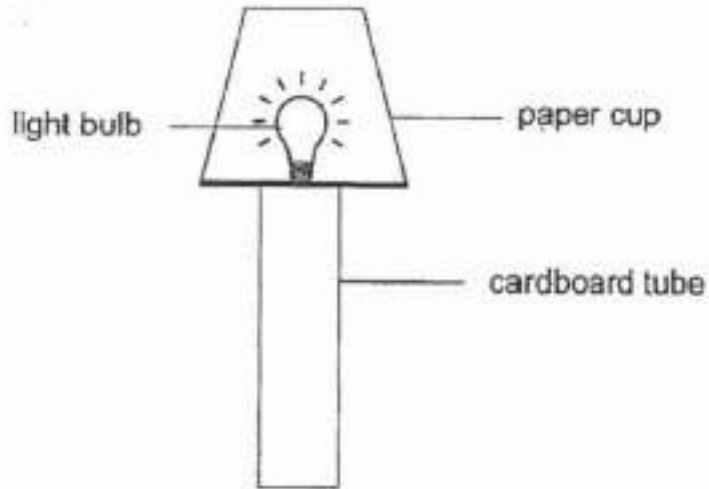
- A) Air
- B) Sun
- C) Bird
- D) Plants

**Question 13 of 67**

Primary 4 Science (Term 4)

2 pts

Ken made a model lighthouse using a cardboard tube, a paper cup, a lit light bulb, some wires and a battery.



Ken wanted to make his model lighthouse shine more brightly.

Which one of the following should Ken use to replace the paper cup with?

- 
- A) steel cup
  - B) ceramic cup
  - C) styrofoam cup
  - D) clear plastic cup

**Question 14 of 67**

Primary 4 Science (Term 4) 2 pts

Which of the following are not characteristics of insects?

- A 3 body parts
- B 3 pairs of legs
- C give birth to young alive
- D outer covering of feathers

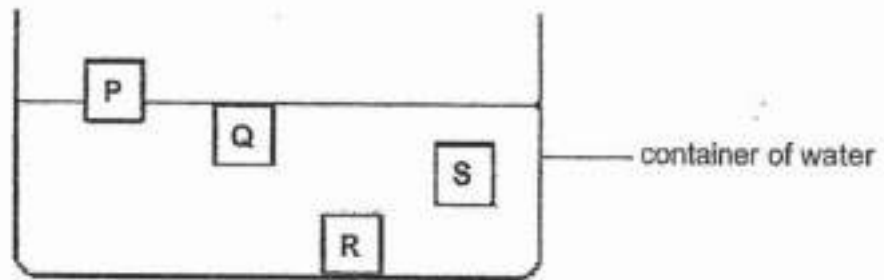
- 
- A) A and B only
  - B) B and C only
  - C) C and D only
  - D) A, B and D only

**Question 15 of 67**

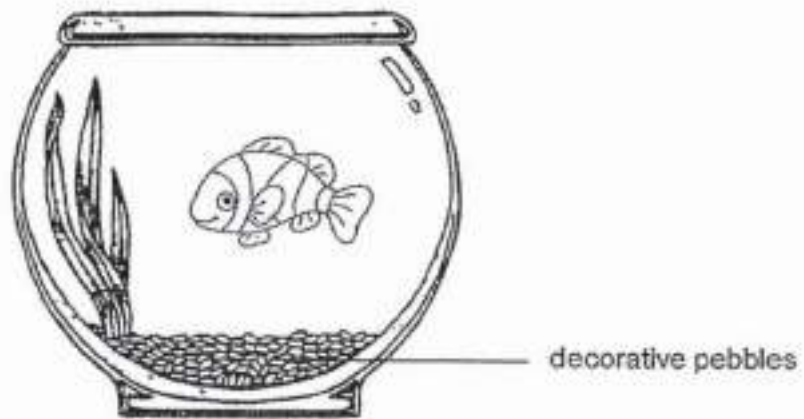
Primary 4 Science (Term 4)

2 pts

Travis placed four similar cubes made of different materials, P, Q, R and S, in a container of water. The diagram shows his observation.



The diagram below shows Travis' fish bowl.



He wanted to make some decorative pebbles to put in his fish bowl.  
Which material, P, Q, R or S, would be the best for Travis to use?

- A) P
- B) Q
- C) R
- D) S

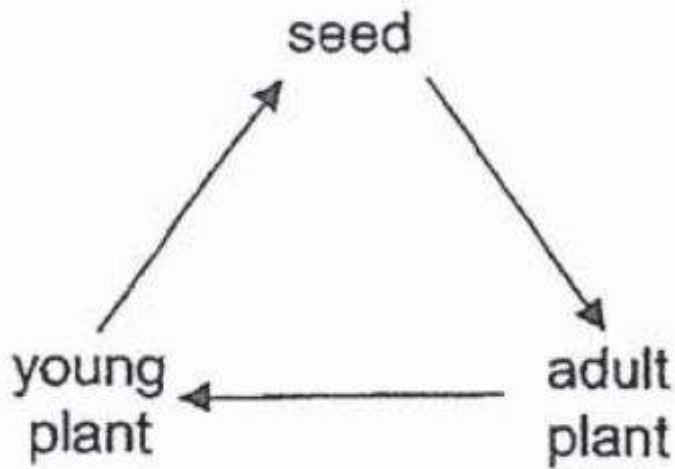
**Question 16 of 67**

Primary 4 Science (Term 4)

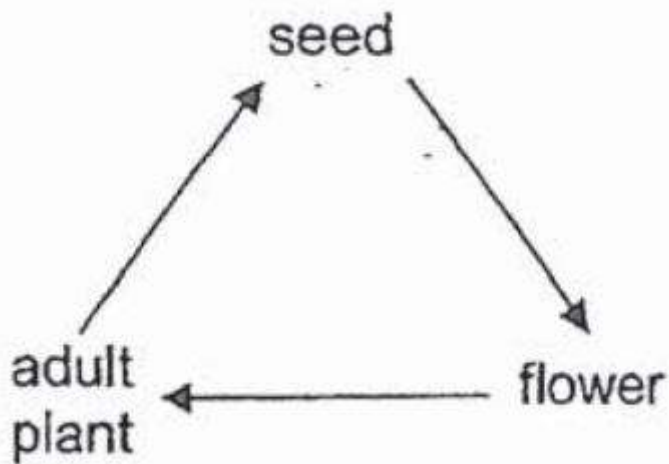
2 pts

Which of the following shows the correct stages in the life cycle of a flowering plant?

A)

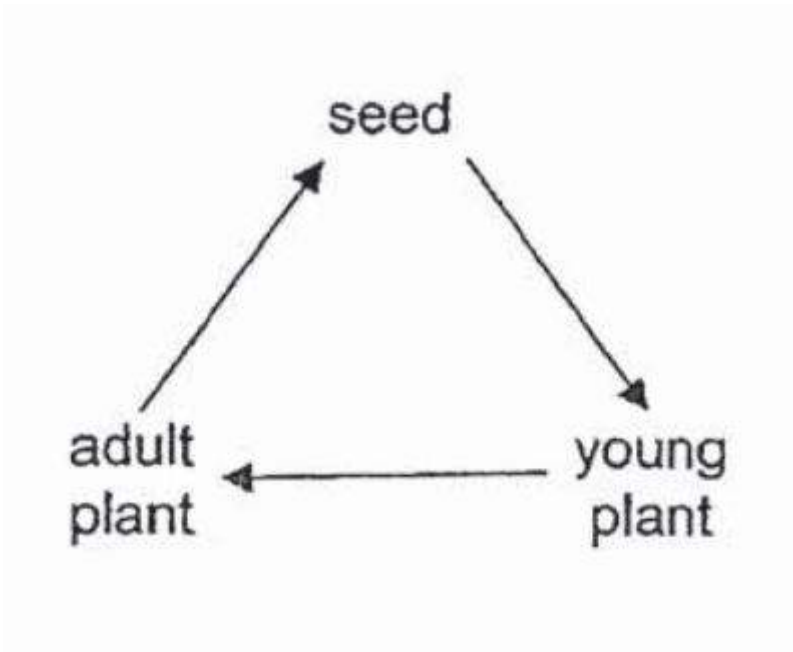


B)

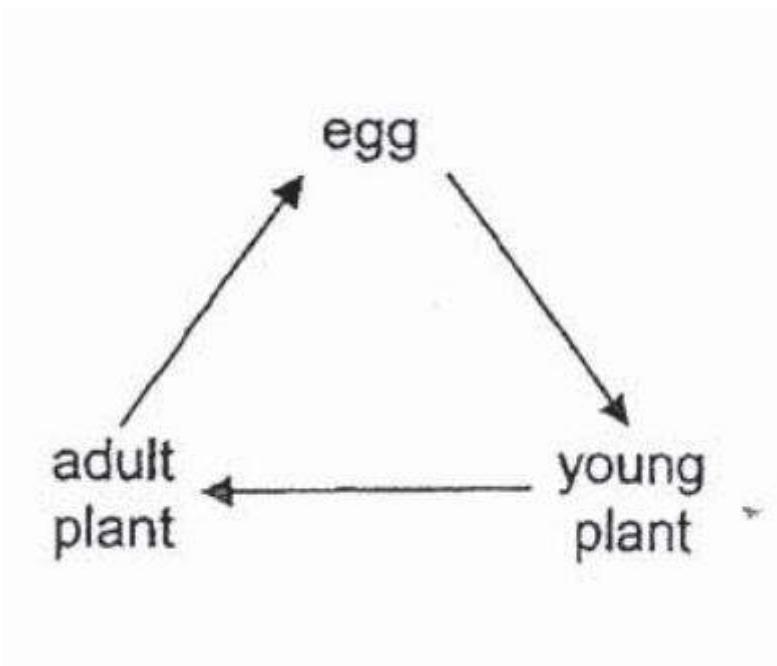


C)





D)

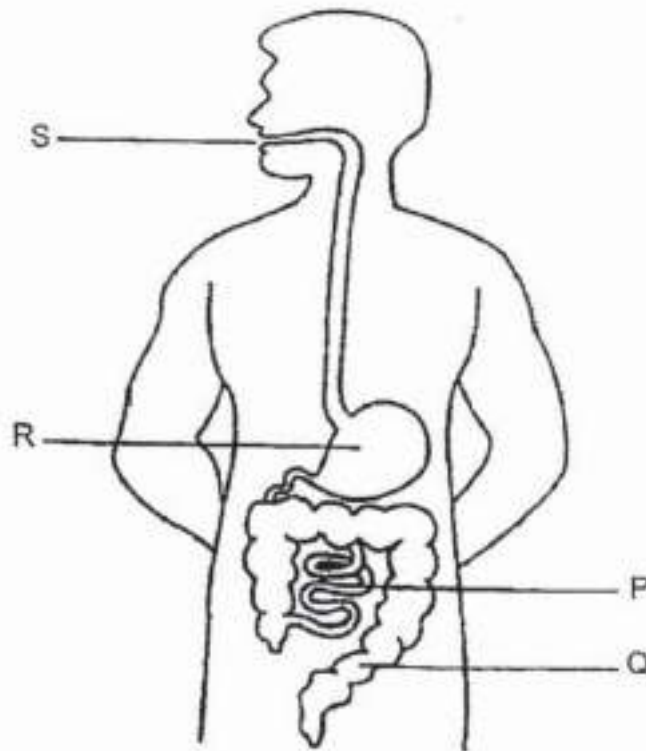


## Question 17 of 67

Primary 4 Science (Term 4)

2 pts

The diagram shows the human digestive system.



Which of the following correctly identifies the parts of the digestive system where digestion starts and absorption of water from undigested food?

- A) 

Digestion starts here	Absorption of water from undigested food
R	P
- B) 

Digestion starts here	Absorption of water from undigested food
R	Q
- C) 

Digestion starts here	Absorption of water from undigested food
S	P
- D) 

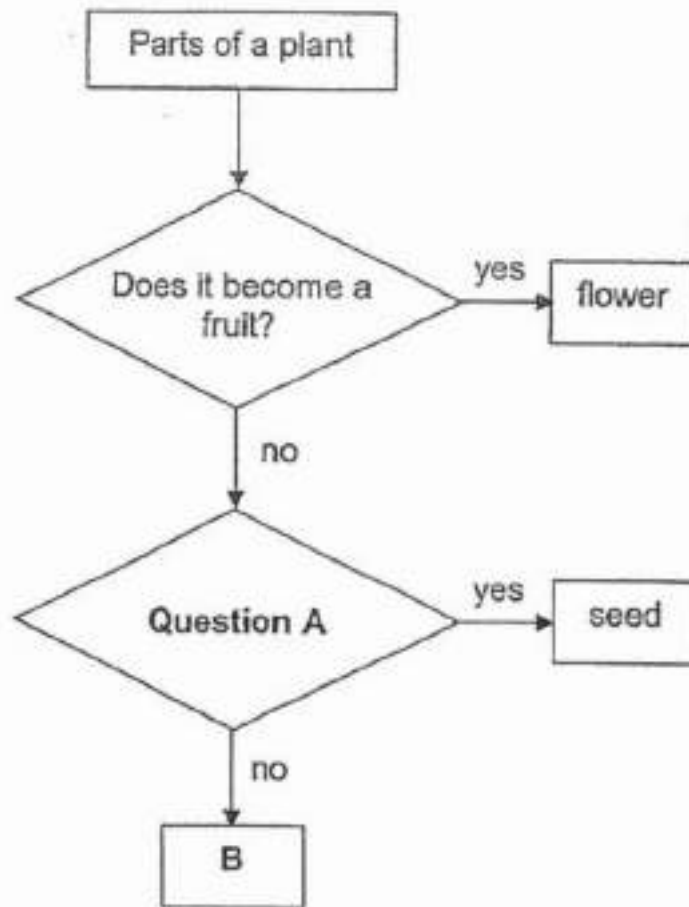
Digestion starts here	Absorption of water from undigested food
S	Q

## Question 18 of 67

Primary 4 Science (Term 4)

2 pts

Study the chart below.



Which one of the following is correct?

- A) 

Question A	B
Does it hold the plant upright?	fruit
- B) 

Question A	B
Does it grow into a flowering plant?	spore
- C) 

Question A	B
Does it grow into a non-flowering plant?	leaf
- D) 

Question A	B
Does it grow into a non-flowering plant?	spore

**Question 19 of 67**

Primary 4 Science (Term 4)

2 pts

James placed an empty glass and a small ball into a basin of water as shown in the diagram below. When the glass touched the bottom of the basin, he observed that the water level inside the glass was lower than the water level in the basin.

However, the ball still floated on the water as shown below.



Which of the following explains the difference in the water level inside and outside the glass?

- A) The ball in the glass is light.
- B) The air in the glass occupied space.
- C) The ball pushed the water out from the glass.
- D) The air in the glass has a greater mass than the water.

**Question 20 of 67**

Primary 4 Science (Term 4) 2 pts

Darius had a float as shown in the diagram below. When he blew more air into the float, he observed that the size of the float remained the same.



Which one of the following best explains his observation?

- A) Air has mass.
- B) Air takes up space.
- C) Air can be compressed.
- D) Air has a definite shape.

**Question 21 of 67**

Primary 4 Science (Term 4) 2 pts

Lucas placed two plates in an air-conditioned room of 23°C and went off to play. Both plates were of similar size but made of different materials.

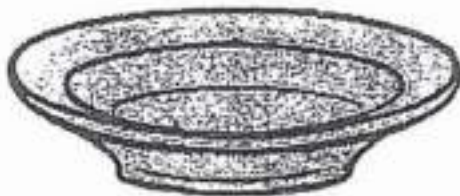


Plate A

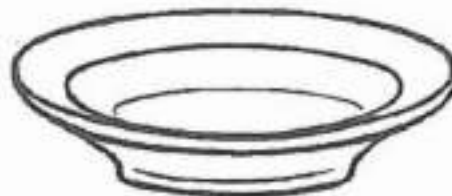


Plate B

When Lucas returned and touched the plates, plate A felt colder to the touch than plate B.

Which one of the following is most likely the reason why Lucas felt that plate A was colder than plate B?

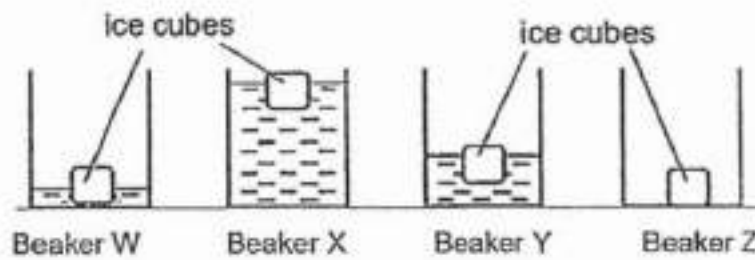
- A) Plate A lost more heat to Lucas' hand than plate B.
- B) Plate A lost more heat to the surroundings than plate B.
- C) Plate A gained more heat from Lucas' hand than plate B.
- D) Plate A gained more heat from the surroundings than plate B.

## Question 22 of 67

Primary 4 Science (Term 4)

2 pts

Jane set up an experiment as shown below. She placed ice cubes of similar size into identical beakers, W, X, Y and Z.



Beakers W, X and Y contained different amounts of water measuring  $75^{\circ}\text{C}$ .

Based on the set-up, which ice cube in the beakers above would take the longest time to melt completely?

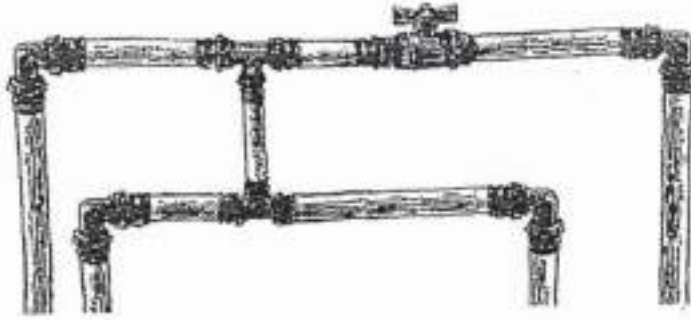
- A) Beaker W
- B) Beaker X
- C) Beaker Y
- D) Beaker Z

## Question 23 of 67

Primary 4 Science (Term 4)

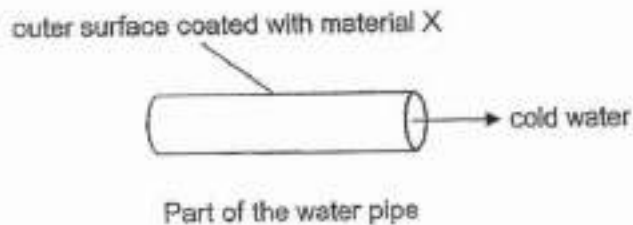
2 pts

Wally observed that most of the water pipes at home are made of copper, a type of metal. These pipes transport cold water to the taps in the house.



He suggested to his dad that the water pipes be coated with material X, a poor conductor of heat.

The diagram shows which part of the water pipe will be coated with material X.



Which of the following statements correctly describe what will happen when the pipes are coated with material X?

- A The surrounding air will lose heat quickly to the cold water.
- B The cold water will gain heat slowly from the surrounding air.
- C The water pipes will not gain heat from the surrounding air quickly.

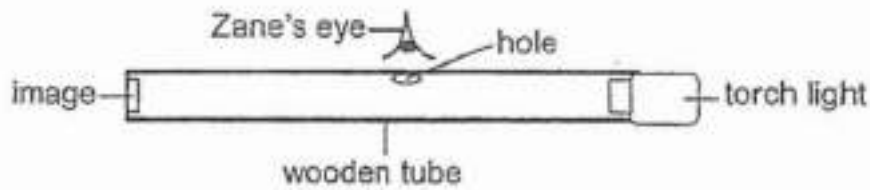
- A) A and B only
- B) B and C only
- C) A and C only
- D) A, B and C

**Question 24 of 67**

Primary 4 Science (Term 4)

2 pts

Zane created a toy using a wooden tube, a torch light fixed at one end and an image at the other end of the tube. He made a hole at the centre of the wooden tube to look at the image.



When he switched on the torch light, he could not see the image.

Which of the following could be the reason why Zane could not see the image?

- A) Light is a form of energy.
- B) There was no source of light in the tube.
- C) The wooden tube does not allow any light to pass through.
- D) Light reflected off the image was not reflected into Zane's eye.



## Question 25 of 67

Primary 4 Science (Term 4)

2 pts

Karen created a sheep puppet using some pieces of cardboard and aluminium foil, as shown in diagram 1.

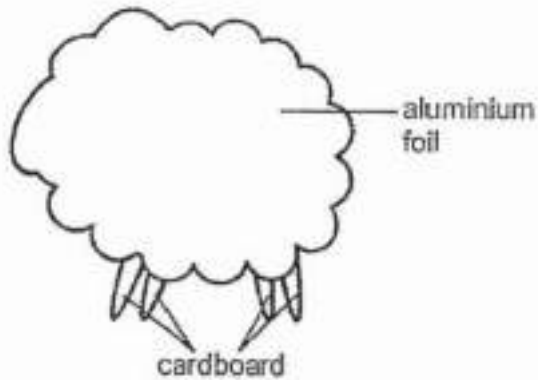


Diagram 1

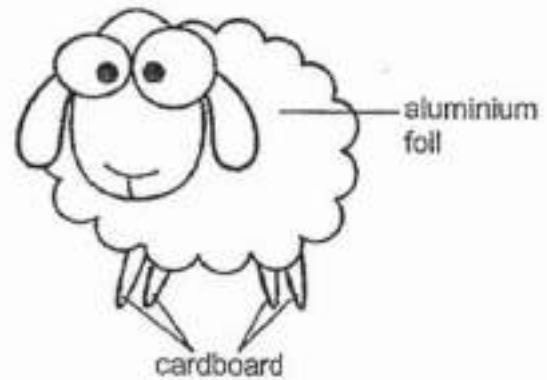
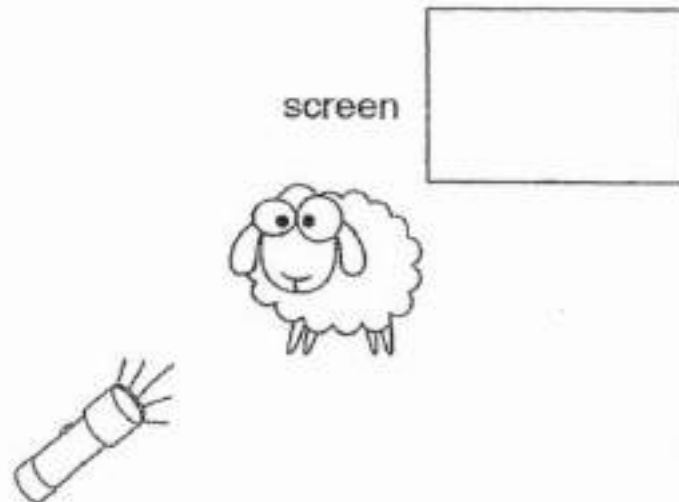


Diagram 2

She then drew in the face and ears of the sheep using a marker, as shown in diagram 2.

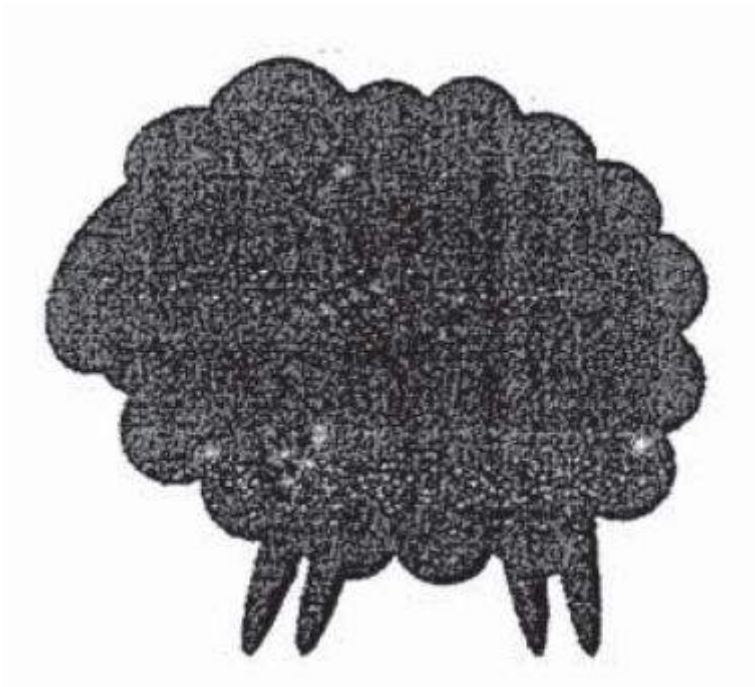
The diagram below shows Karen's set-up of the sheep puppet.



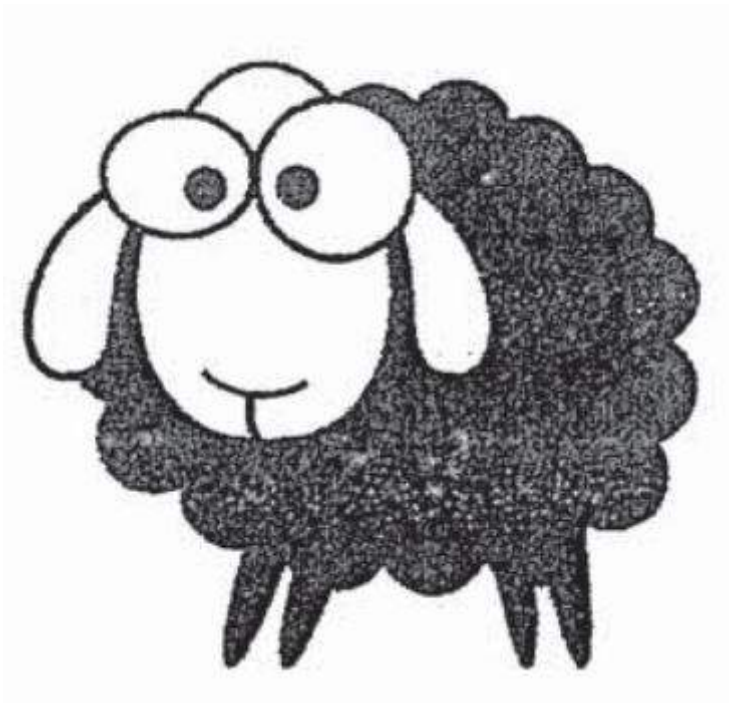
When Karen shone a torch on her puppet, she saw a shadow of the puppet on the wall.

Which one of the following is the shadow that Karen saw on the wall?

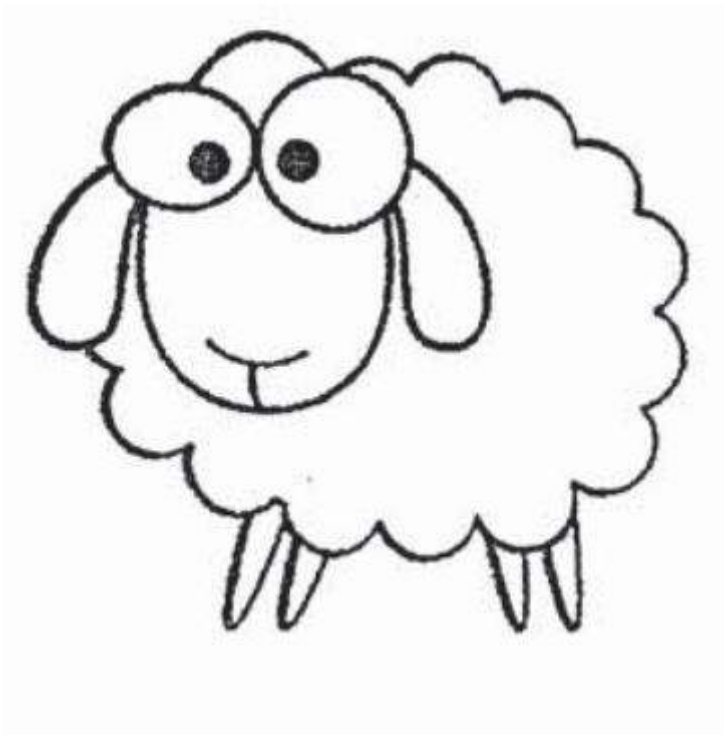
A)



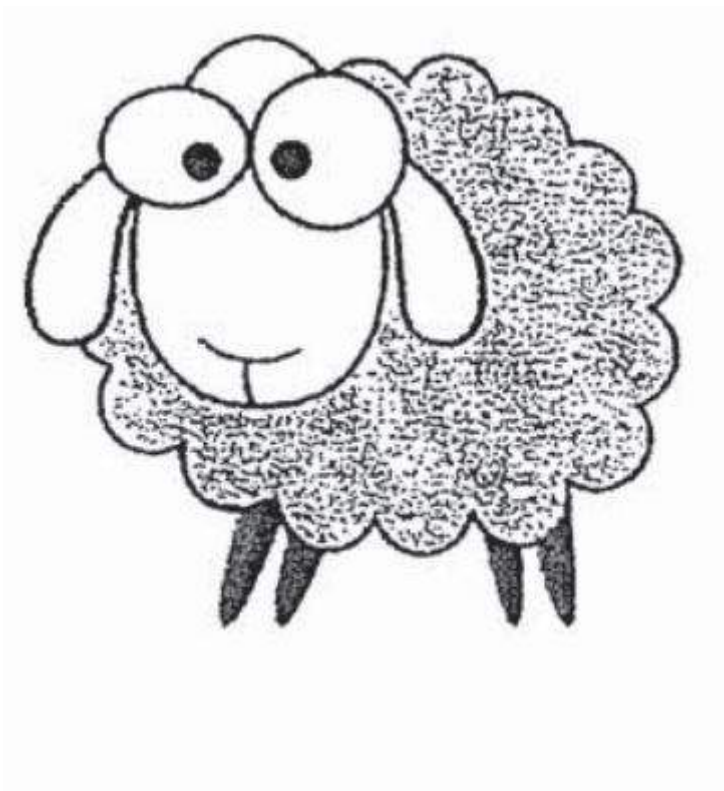
B)



C)



D)



## Question 26 of 67

Primary 4 Science (Term 4)

2 pts

Gabriel studied two animals, P and Q. At the end of his study, he recorded his observations as shown in the table below.

Observation	Animals	
	P	Q
has 6 legs	No	Yes
reproduce by laying eggs	Yes	Yes
the young lives in the water	No	Yes

Which one of the following correctly represents animals, P and Q?

- A) 

P	Q
mosquito	chicken
- B) 

P	Q
mosquito	butterfly
- C) 

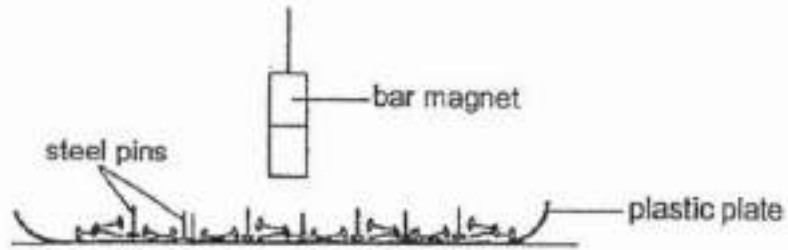
P	Q
chicken	mosquito
- D) 

P	Q
butterfly	mosquito

**Question 27 of 67**

Primary 4 Science (Term 4) 2 pts

A bar magnet was placed near a plastic plate of steel pins. It was observed that none of the pins were attracted to the bar magnet.



Which one of the following is a possible reason for the observation?

- A) The bar magnet repelled the steel pins.
- B) The pins were attracted to the plastic plate.
- C) The magnet was too weak to attract any pins.
- D) The pins were not made of a magnetic material.

## Question 28 of 67

Primary 4 Science (Term 4)

2 pts

A steel bar AB was magnetised using the stroking method as shown in Diagram 1. Diagram 2 shows the magnetic poles of AB after it was magnetised.

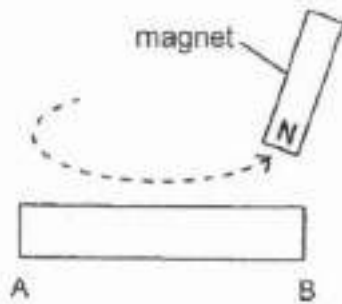


Diagram 1

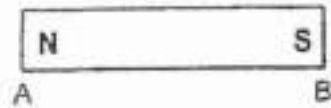


Diagram 2

Steel bar CD was magnetised as shown in Diagram 3.

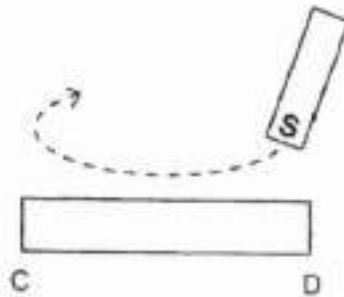
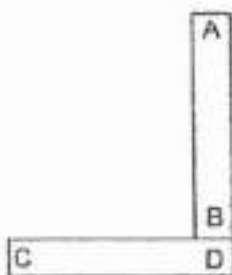
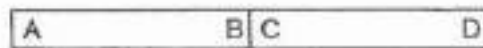


Diagram 3

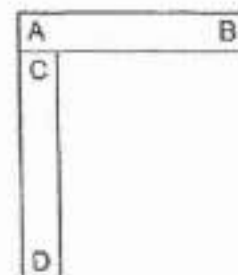
Which of the following diagrams (P, Q or R) do not show a possible arrangement of the two bars, AB and CD, after they were magnetised?



P



Q



R

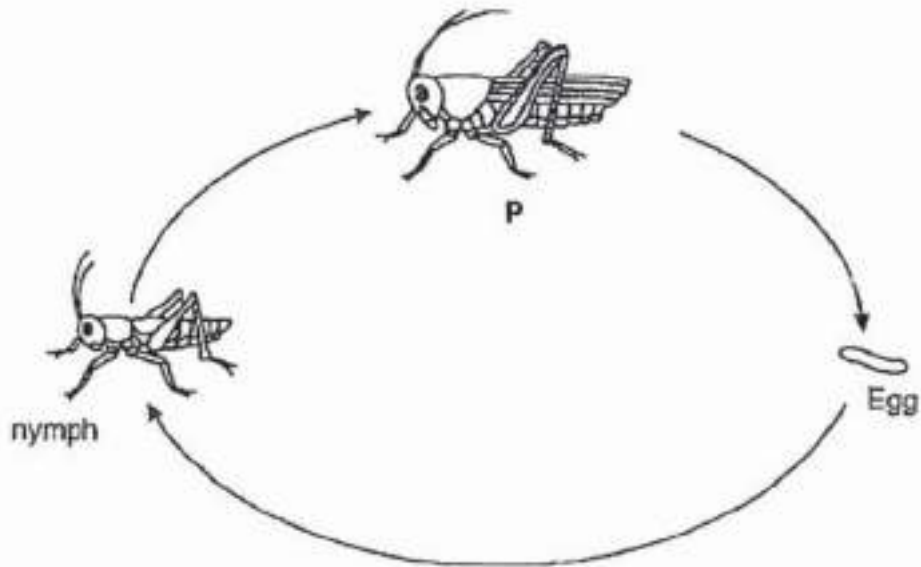
- A) P and Q only  
 B) P and R only  
 C) Q and R only  
 D) P, Q and R

**Question 29 of 67**

Primary 4 Science (Term 4)

1 pt

The diagram shows the stages in the life cycle of a grasshopper.



Name stage P.

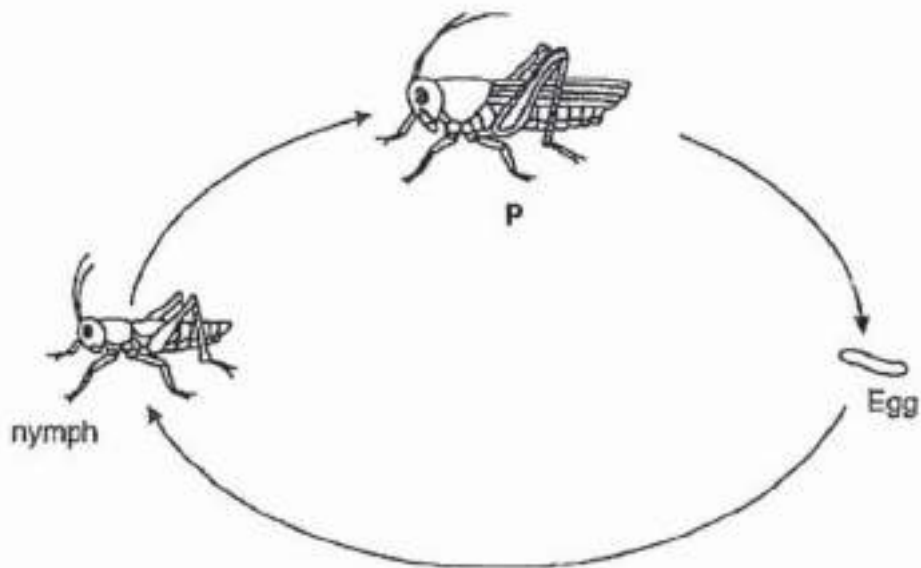
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**Question 30 of 67**

Primary 4 Science (Term 4)

1 pt

The diagram shows the stages in the life cycle of a grasshopper.



Name one other animal that has a similar life cycle as a grasshopper.

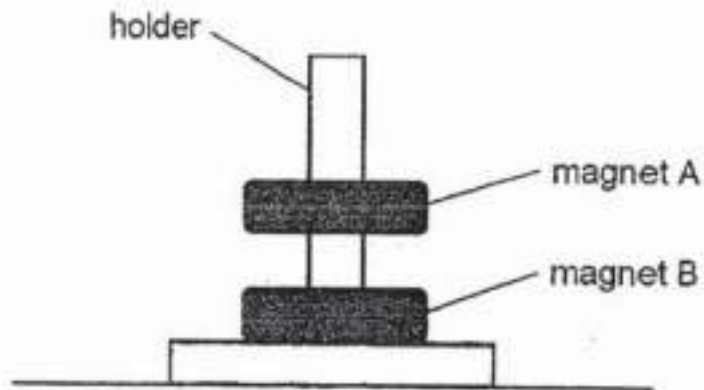
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**Question 31 of 67**

Primary 4 Science (Term 4)

1 pt

Alice placed two ring magnets, A and B, through a holder as shown below.



The holder was made of plastic and was not attracted to the magnets.

Plastic is a \_\_\_\_\_ material.

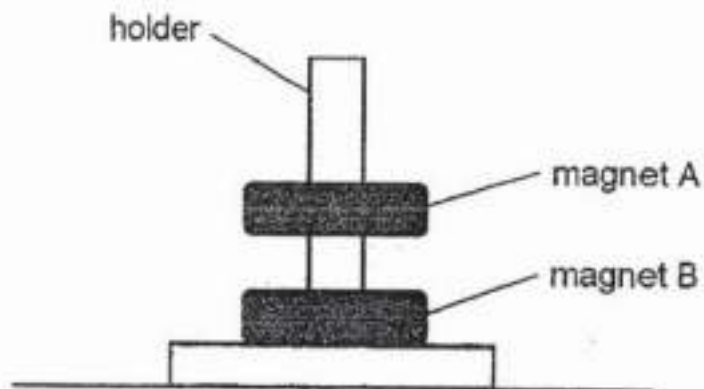
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**Question 32 of 67**

Primary 4 Science (Term 4)

1 pt

Alice placed two ring magnets, A and B, through a holder as shown below.



Why was magnet A floating above magnet B?

Magnet B was \_\_\_\_\_ magnet A.

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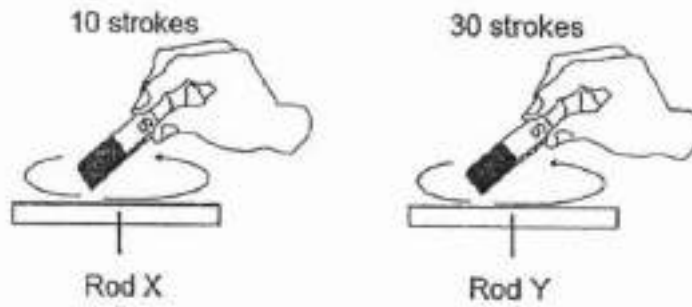


## Question 33 of 67

Primary 4 Science (Term 4)

1 pt

Alice stroked two similar iron rods X and Y with the same magnet as shown below.



Both rods became magnets and were used to attract similar pins.

c) Circle the correct answer below.

[1]

Rod Y attracted ( less pins than / the same number of pins as / more pins than ) rod X.

Choose the correct answer below.

- A) less pins than
- B) the same number of pins as
- C) more pins than

**Question 34 of 67**

Primary 4 Science (Term 4)

1 pt

Ram shines a torch on a ball and a shadow is formed on a smooth wall.



torch



ball



wall

A shadow is formed when light is \_\_\_\_\_ by an object.

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**Question 35 of 67**

Primary 4 Science (Term 4)

0 pts

Ram shines a torch on a ball and a shadow is formed on a smooth wall.



torch

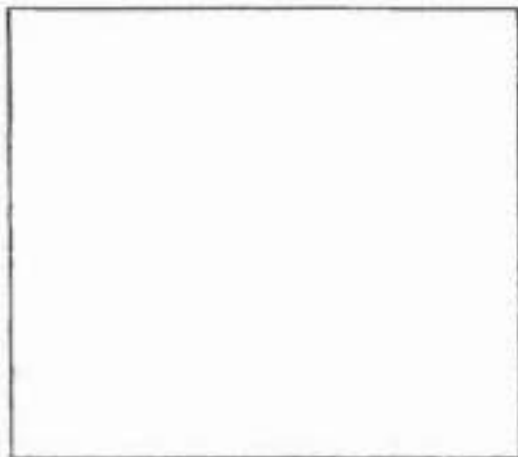


ball



wall

Draw the shadow of the ball that is formed on the wall.



wall

(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 67**

Primary 4 Science (Term 4) 3 pts

Match the functions to the organ systems.

- 
- |        |   |                       |
|--------|---|-----------------------|
| 1. [ ] | supports our body and gives it shape                                | A. Muscular System    |
| 2. [ ] | helps different parts of the body to move                           | B. Circulatory System |
| 3. [ ] | takes air into and out of the body                                  | C. Skeletal System    |
| 4. [ ] | transports digested food, water and oxygen to all parts of the body | D. None               |
- 

**Question 37 of 67**

Primary 4 Science (Term 4) 0 pts

State what digestion is. (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.*

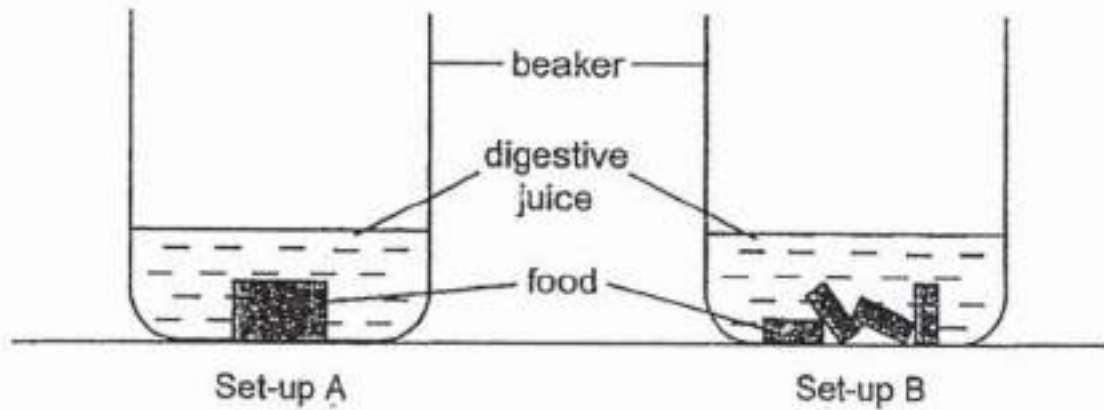
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**Question 38 of 67**

Primary 4 Science (Term 4) 0.5 pts

Aurelia wanted to find out if cutting up food into smaller pieces helps the food to digest completely faster.

The diagram shows her experimental set-ups, A and B.



Variable: Amount of digestive juice

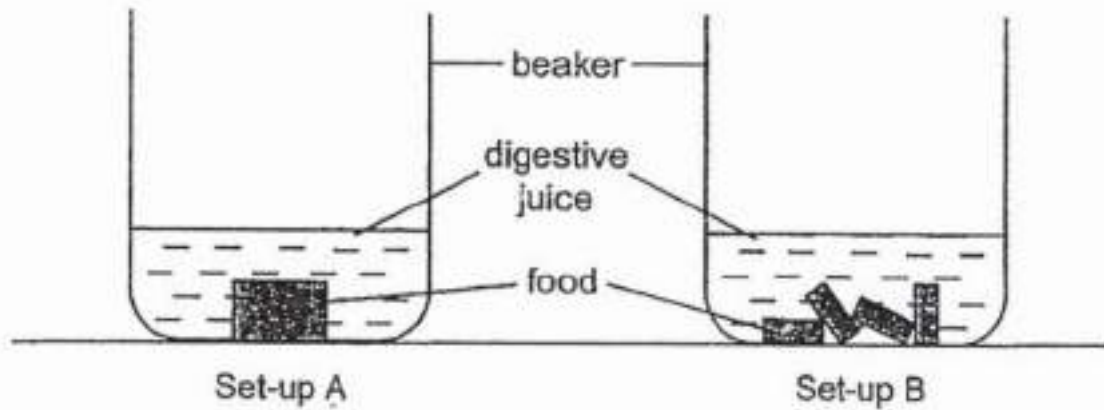
- A) Keep the same
- B) Change

**Question 39 of 67**

Primary 4 Science (Term 4) 0.5 pts

Aurelia wanted to find out if cutting up food into smaller pieces helps the food to digest completely faster.

The diagram shows her experimental set-ups, A and B.



Variable: Size of food piece(s)

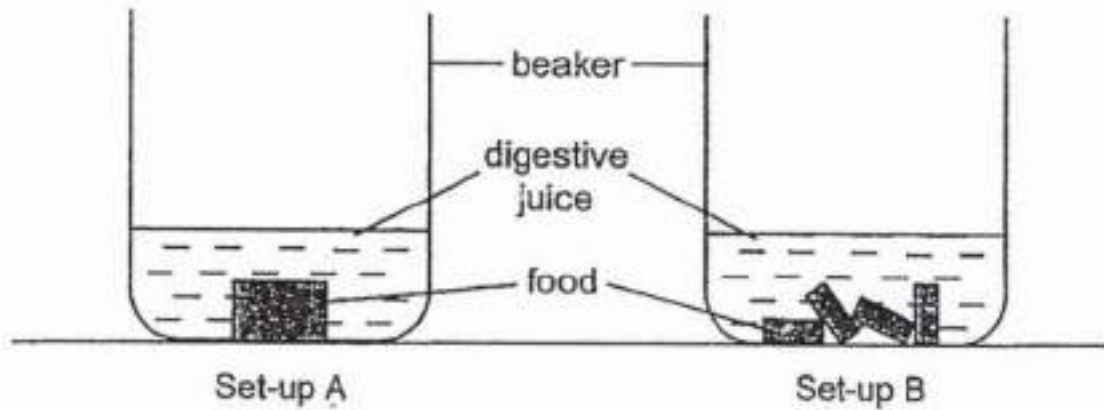
- A) Keep the same
- B) Change

**Question 40 of 67**

Primary 4 Science (Term 4) 0.5 pts

Aurelia wanted to find out if cutting up food into smaller pieces helps the food to digest completely faster.

The diagram shows her experimental set-ups, A and B.



Variable: Mass of food

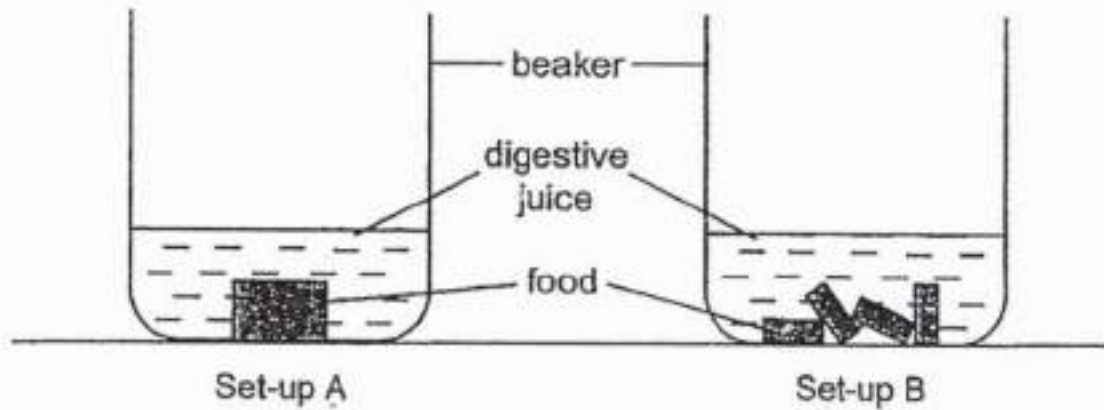
- 
- A) Keep the same
- B) Change

**Question 41 of 67**

Primary 4 Science (Term 4) 0.5 pts

Aurelia wanted to find out if cutting up food into smaller pieces helps the food to digest completely faster.

The diagram shows her experimental set-ups, A and B.



Variable: Temperature of digestive juice

- A) Keep the same
- B) Change

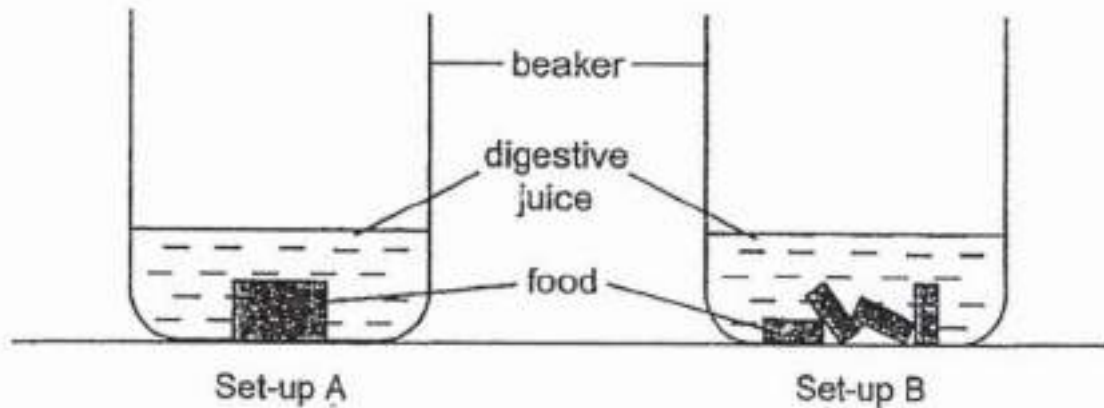


**Question 42 of 67**

Primary 4 Science (Term 4) 0 pts

Aurelia wanted to find out if cutting up food into smaller pieces helps the food to digest completely faster.

The diagram shows her experimental set-ups, A and B.



Based on the results of her experiment, Aurelia concluded that cutting up food into smaller pieces helps the food to digest completely faster.

What observation would show that her conclusion is correct? (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.*

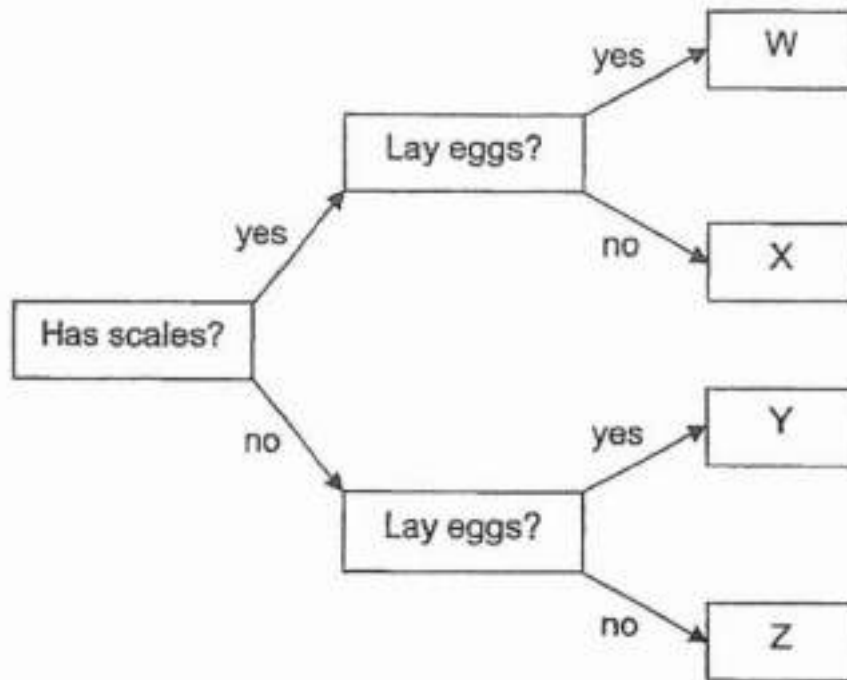
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## Question 43 of 67

Primary 4 Science (Term 4)

0 pts

Animals W, X, Y and Z are classified as shown.



Based on the classification above, describe the characteristics of animal W. (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.*

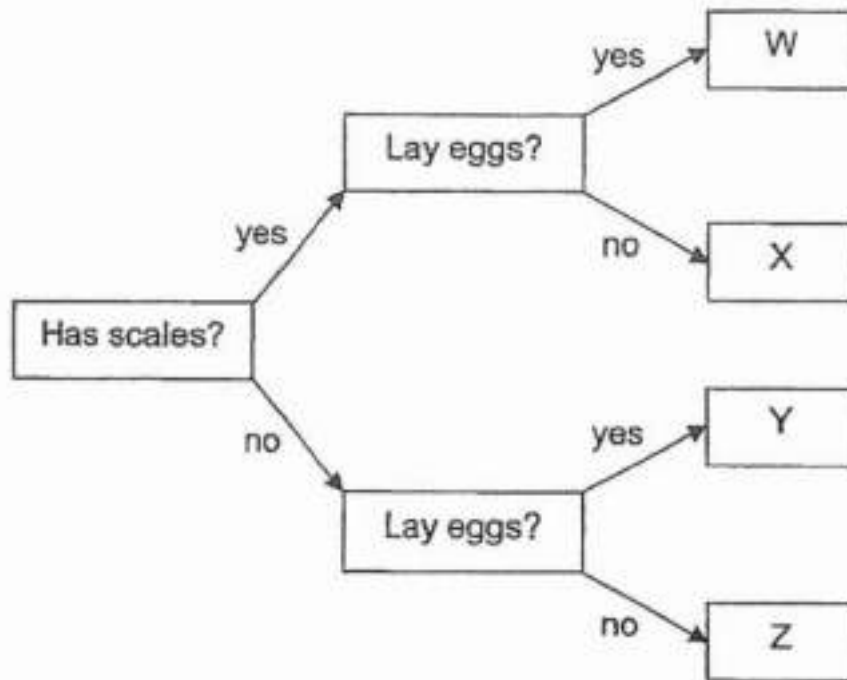
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

## Question 44 of 67

Primary 4 Science (Term 4)

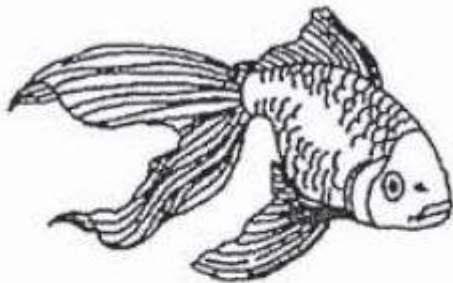
0.5 pts

Animals W, X, Y and Z are classified as shown.



Study the picture shown below.

Fill in the blank with the letters, W, X, Y or Z from the diagram shown above.



gold fish

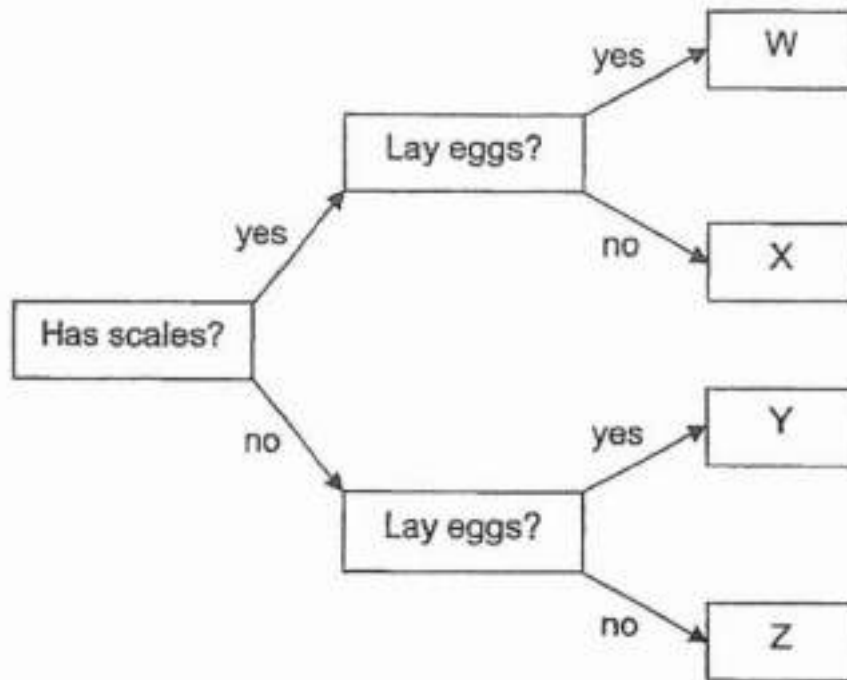
Animal \_\_\_\_\_

## Question 45 of 67

Primary 4 Science (Term 4)

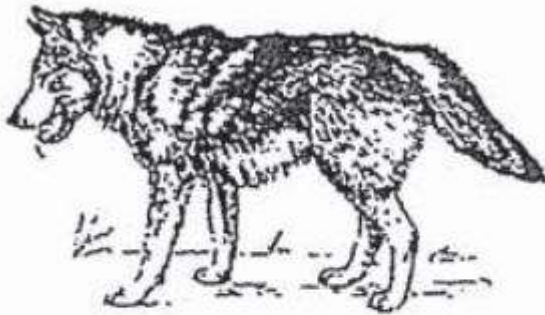
0.5 pts

Animals W, X, Y and Z are classified as shown.



Study the picture shown below.

Fill in the blank with the letters, W, X, Y or Z from the diagram shown above.



dog

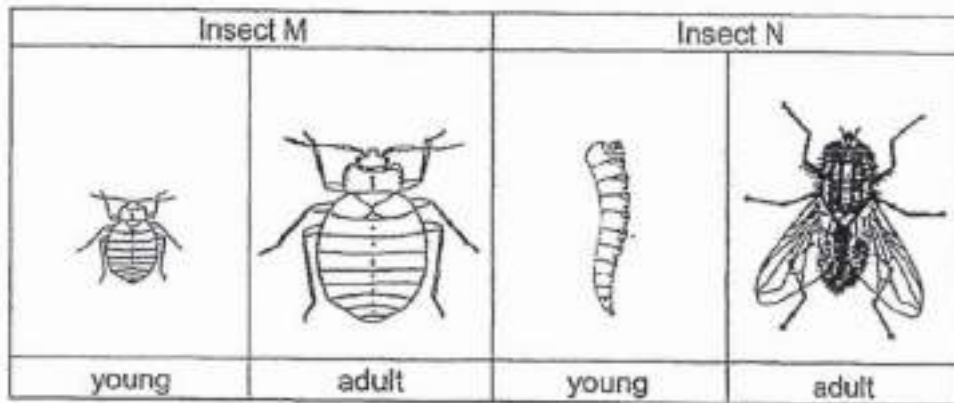
Animal \_\_\_\_\_

## Question 46 of 67

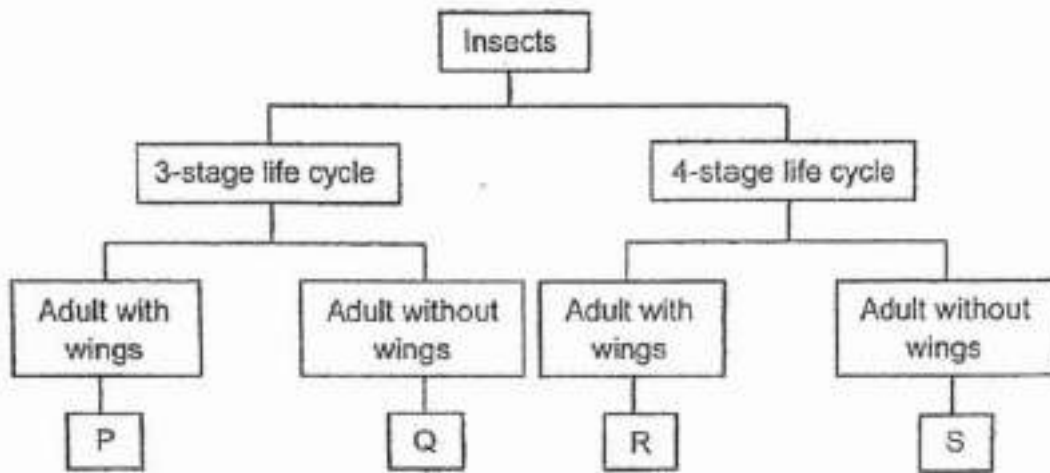
Primary 4 Science (Term 4)

0.5 pts

The diagram shows insects M and N.



Study the classification chart below.



Which group P, Q, R or S do insect M belong to?

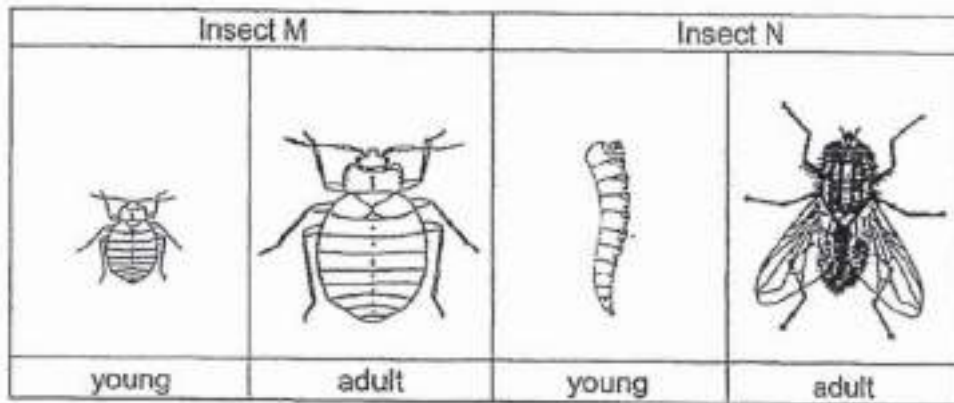
Insect M - Group \_\_\_\_\_

## Question 47 of 67

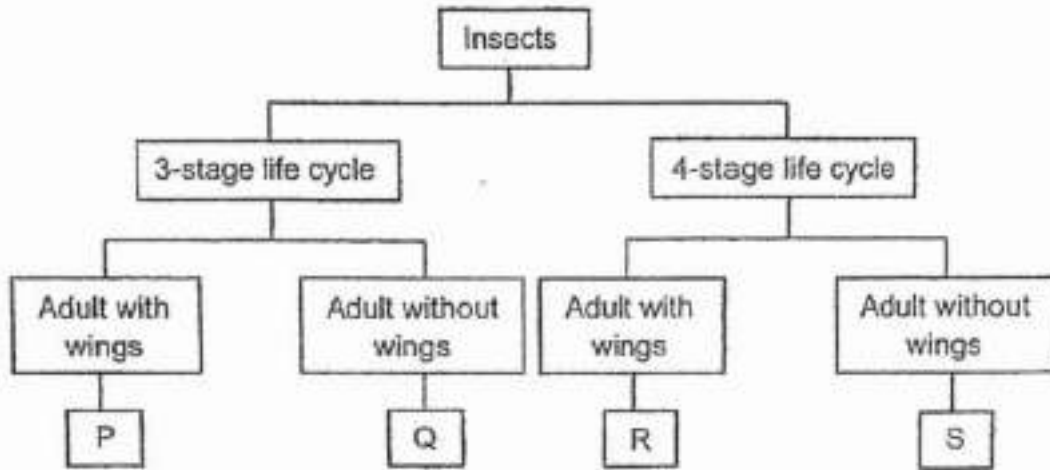
Primary 4 Science (Term 4)

0.5 pts

The diagram shows insects M and N.



Study the classification chart below.



Which group P, Q, R or S do insect N belong to?





## Question 48 of 67

Primary 4 Science (Term 4)

0 pts

Jack grew some seeds of a plant in four pots in his room.

In each pot, he placed 3 seeds. The conditions and results are shown below.

Pot	Condition		Result observed in each pot
	Soil	Light	Appearance of the 3 seeds on Day 6
A	dry	absent	
B	wet	absent	
C	dry	present	
D	wet	present	

Based only on the results given, state the condition that did not affect the growth of the seeds. (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 49 of 67

Primary 4 Science (Term 4)

0 pts

Jack grew some seeds of a plant in four pots in his room.

In each pot, he placed 3 seeds. The conditions and results are shown below.

Pot	Condition		Result observed in each pot
	Soil	Light	Appearance of the 3 seeds on Day 6
A	dry	absent	
B	wet	absent	
C	dry	present	
D	wet	present	

Using the results given, explain your answer in the previous question. (1 mark)

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## Question 50 of 67

Primary 4 Science (Term 4)

0 pts

Jack grew some seeds of a plant in four pots in his room.

In each pot, he placed 3 seeds. The conditions and results are shown below.

Pot	Condition		Result observed in each pot
	Soil	Light	Appearance of the 3 seeds on Day 6
A	dry	absent	
B	wet	absent	
C	dry	present	
D	wet	present	

Jack wanted to find out if the seeds needed water to grow.

Which 2 pots should he compare to make a conclusion? 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.*

*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 51 of 67

Primary 4 Science (Term 4) 0 pts

May released a toy car from the top of ramp C. The toy car had a magnet attached to the front of it, as shown in diagram 1.

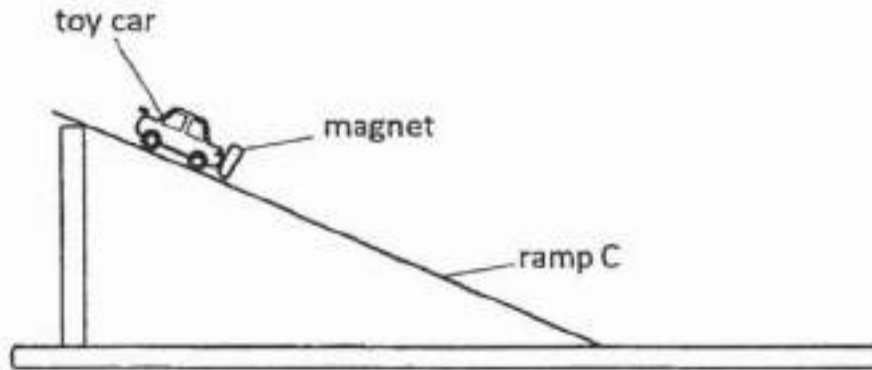


Diagram 1

May observed that the car rolled down ramp C, when it was released.

Then, May placed object T at a fixed point at the bottom of the ramp C, as shown in diagram 2.

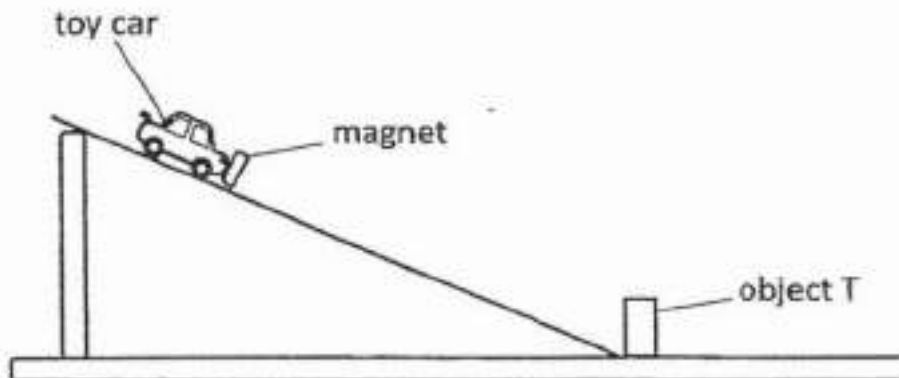


Diagram 2

Diagram 3 shows what happened when the toy car was released from the top.

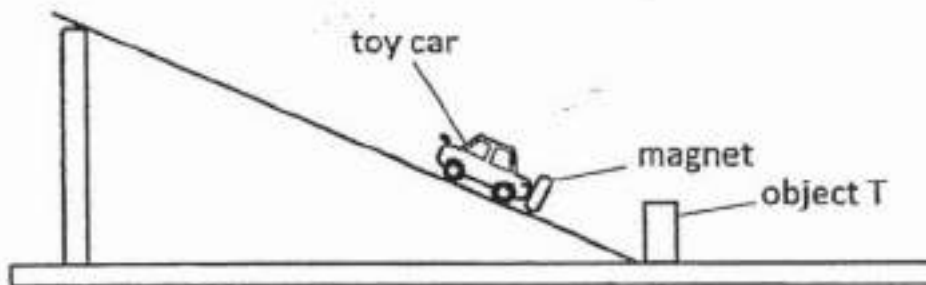


Diagram 3

The toy car rolled down but stopped a distance away from object T as shown in diagram 3.

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.*

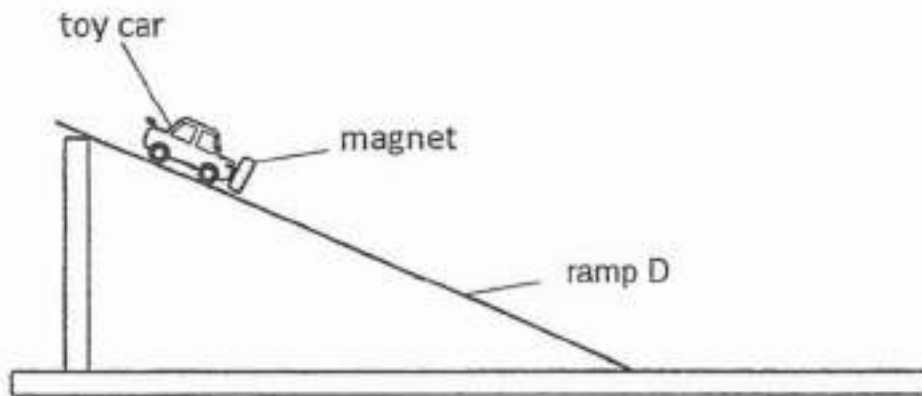
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

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**Question 52 of 67**

Primary 4 Science (Term 4) 0 pts

May repeated the experiment using ramp D as shown. She did not use object T.



When May released the toy car from the same height, she observed that it did not move at all.

Suggest a possible reason for her observation. (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.*

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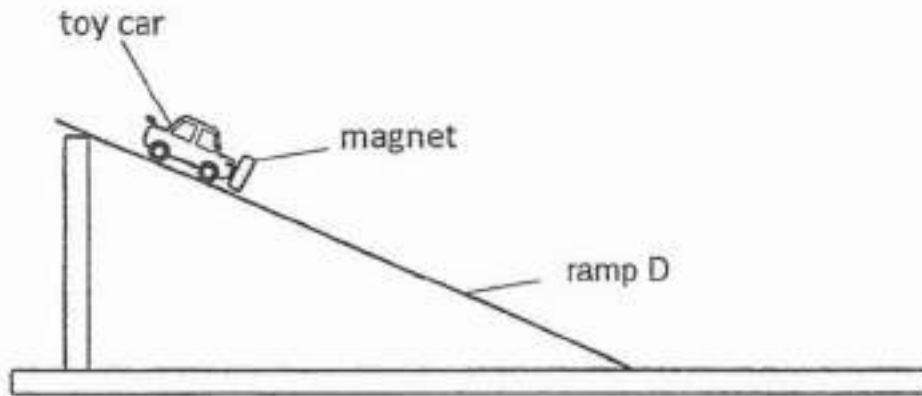
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**Question 53 of 67**

Primary 4 Science (Term 4)

1 pt

May repeated the experiment using ramp D as shown. She did not use object T.



When May released the toy car from the same height, she observed that it did not move at all.

Based on the observation, name one material that ramp D could be made of. (1 mark)

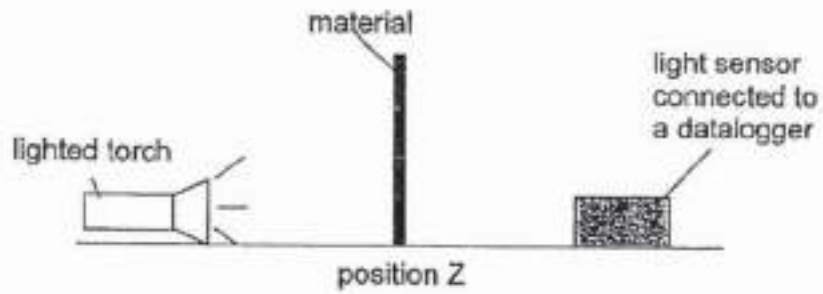
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## Question 54 of 67

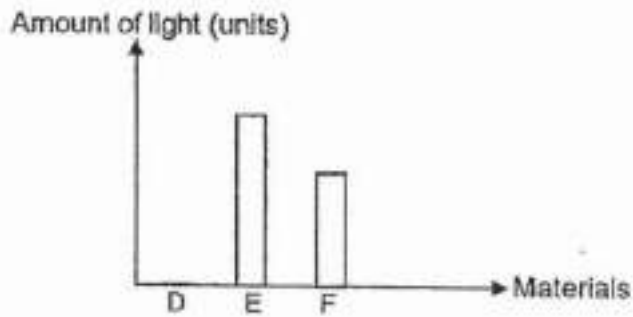
Primary 4 Science (Term 4)

1 pt

Mrs Yan conducted the experiment, shown below, in a dark room. She wanted to find out how much light is blocked by materials, D, E and F.



She placed materials D, E and F, at position Z, one at the time. She recorded the amount of light detected by the light sensor in the graph below.



Based on the graph, which material, D, E or F allows no light to pass through? (1 mark)

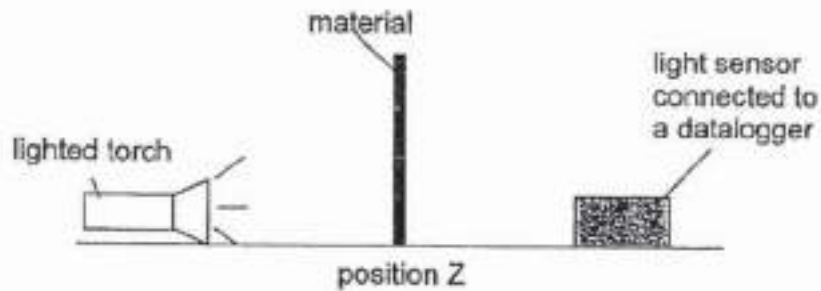
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## Question 55 of 67

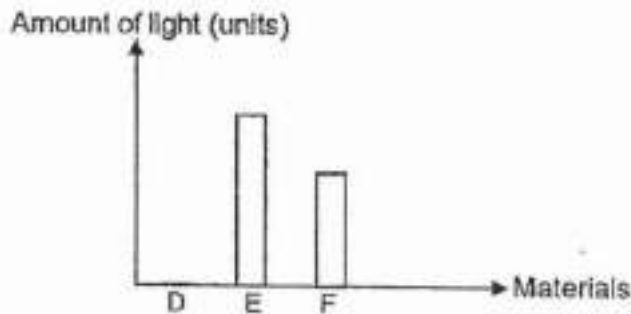
Primary 4 Science (Term 4)

2 pts

Mrs Yan conducted the experiment, shown below, in a dark room. She wanted to find out how much light is blocked by materials, D, E and F.



She placed materials D, E and F, at position Z, one at the time. She recorded the amount of light detected by the light sensor in the graph below.



Mrs Yan teaches at a school for the hearing impaired. She designed a mask that has a special part Q that would allow the children to observe her lip movements clearly and understand what she is saying.



Based on the information given, which one of the materials, D, E or F, should she use to make part Q? [2]

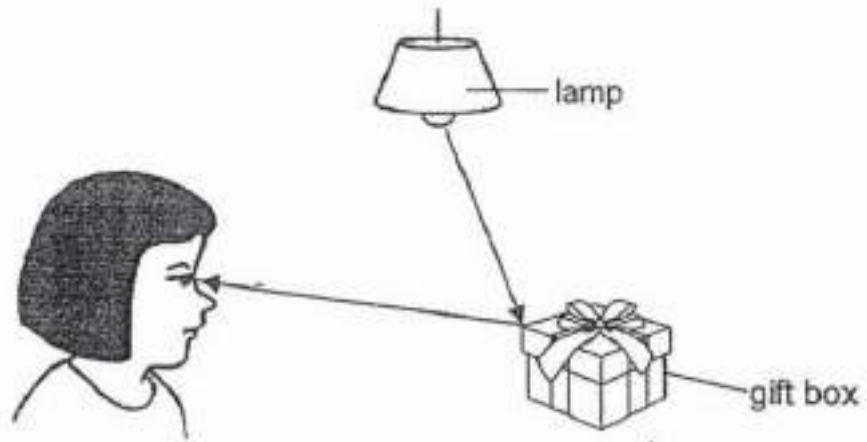
Using information given, explain your answer.

**Question 56 of 67**

Primary 4 Science (Term 4)

0 pts

Pam is looking at a gift box as shown.



Based on the diagram, describe how Pam is able to see the gift box. (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.*

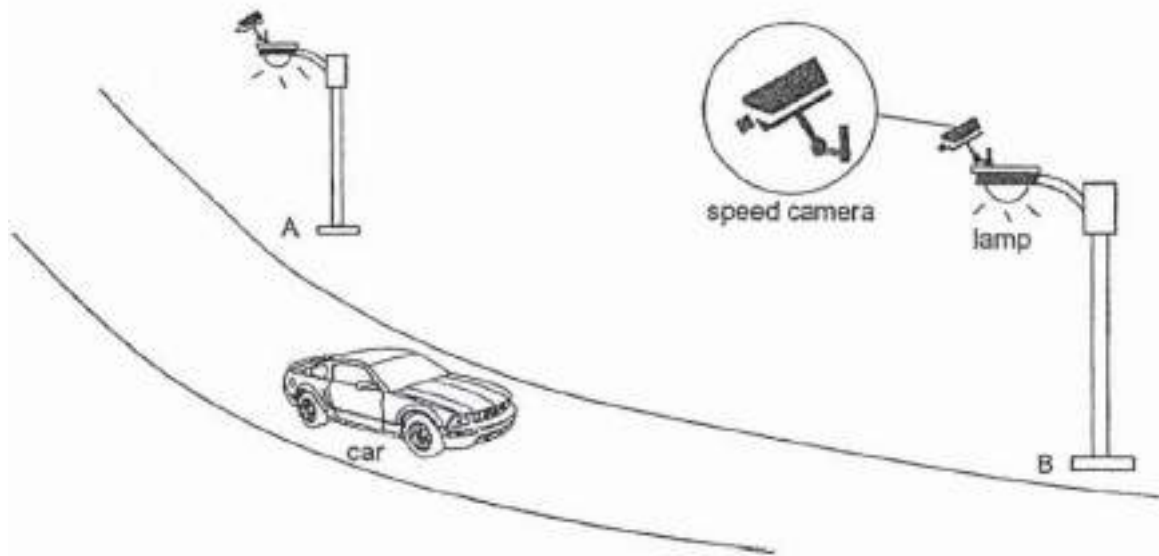
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

**Question 57 of 67**

Primary 4 Science (Term 4)

1 pt

ABC Company installs speed cameras along roads. The diagram shows speed cameras on the top of lamp posts located at two points, A and B, along a road.



At each point, the speed camera takes a picture of the car passing by. The pictures help to calculate how fast the car had travelled from point A to point B. The pictures will only be clear if the surrounding light is very bright.

During the day, the lamps are switched off.

Name the source of light for the speed cameras.

---

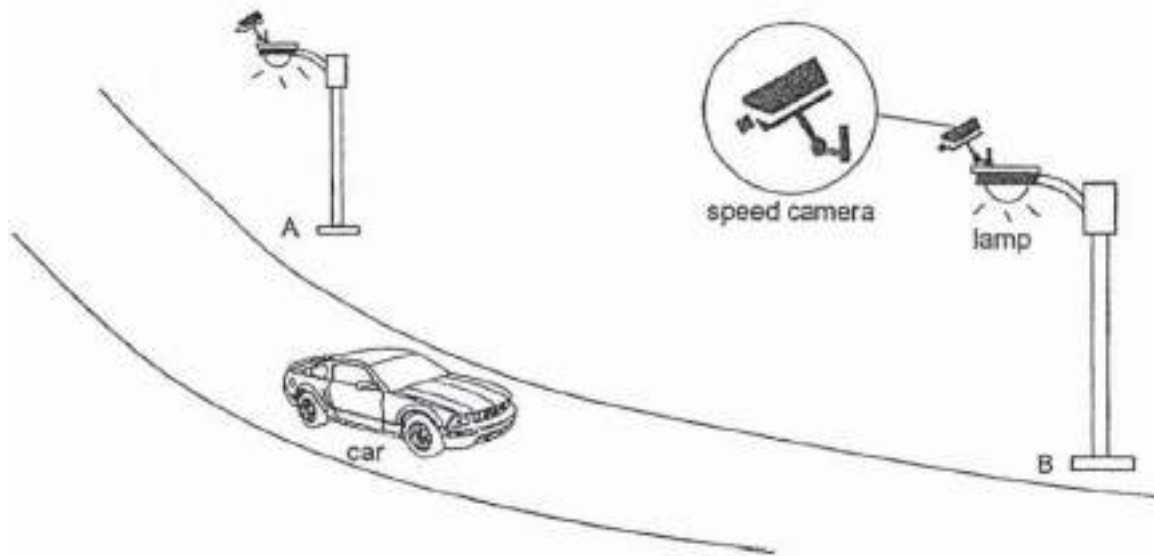


## Question 58 of 67

Primary 4 Science (Term 4)

0 pts

ABC Company installs speed cameras along roads. The diagram shows speed cameras on the top of lamp posts located at two points, A and B, along a road.



At each point, the speed camera takes a picture of the car passing by. The pictures help to calculate how fast the car had travelled from point A to point B. The pictures will only be clear if the surrounding light is very bright.

One night, the picture taken by the speed camera at point A was not clear while the picture taken by the speed camera at point B was very clear.

ABC Company found out that one of the light bulbs of the lamp at point A was not working.

Using the information given, explain why the picture taken by the speed camera at point A was not as clear as the one taken by the speed camera at point B. (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.*

*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 59 of 67**

Primary 4 Science (Term 4) 0 pts

Matter like liquids have mass and occupy space. (1 mark)

State two other properties of liquids.

Property 1: \_\_\_\_\_

Property 2: \_\_\_\_\_

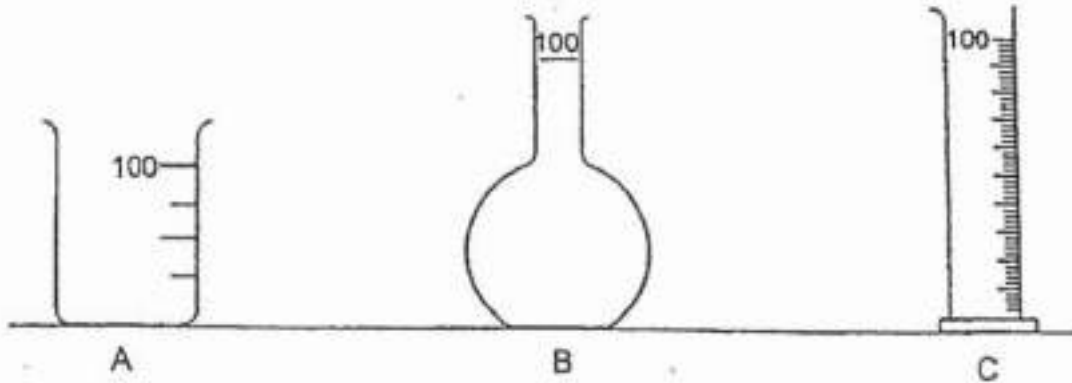
*This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.*

*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 60 of 67**

Primary 4 Science (Term 4) 0 pts

Look at the containers, A, B and C, below. Each can be used to measure volume of liquid up to 100 cm<sup>3</sup>.



Which container, A, B or C, can accurately measure 78 cm<sup>3</sup>?

[1]

Explain your answer.

Which container A, B or C can accurately measure 78cm<sup>3</sup>? Explain 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.*

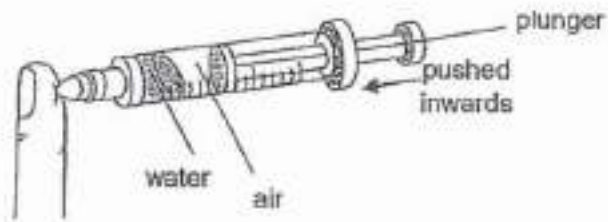
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

## Question 61 of 67

Primary 4 Science (Term 4)

2 pts

Billy fills a syringe with some water as shown in the diagram below. He pushes the plunger inwards into the syringe until he could not push any longer.



State what will happen to the volume of air and water (increase, decrease or remain the same) in the syringe after Billy pushes the plunger inwards. [2]

i) volume of air:

---

ii) volume of water:

---

Match the options below:

1. [ ] Volume of Air: \_\_\_\_\_

A. Remain the same

2. [ ] Volume of water: \_\_\_\_\_

B. Decrease

C. Increase

## Question 62 of 67

Primary 4 Science (Term 4) 0 pts

Ms Tan uses a slow cooker shown in the diagram below.

It takes a long period to cook food without needing anyone to monitor. The slow cooker takes a long time to reach the temperature that is needed to cook the food.

The lid of the slow cooker fits the pot perfectly to ensure that the hot air does not escape from the pot.



A heating element, shown below, is found at the base of the slow cooker. It is made of metal.



The heating element heats up the pot of the slow cooker. The dial controls the temperature of the heating element.

The table shows the time taken to cook the chicken at different temperatures.

Temperature set to cook the chicken ( $^{\circ}\text{C}$ )	Time taken to cook the chicken (h)
65	2
50	4

How does the temperature set affect the amount of heat given off by the heating element in the slow cooker? (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.*

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## Question 63 of 67

Primary 4 Science (Term 4) 0 pts

Ms Tan uses a slow cooker shown in the diagram below.

It takes a long period to cook food without needing anyone to monitor. The slow cooker takes a long time to reach the temperature that is needed to cook the food.

The lid of the slow cooker fits the pot perfectly to ensure that the hot air does not escape from the pot.



A heating element, shown below, is found at the base of the slow cooker. It is made of metal.



The heating element heats up the pot of the slow cooker. The dial controls the temperature of the heating element.

The table shows the time taken to cook the chicken at different temperatures.

Temperature set to cook the chicken ( $^{\circ}\text{C}$ )	Time taken to cook the chicken (h)
65	2
50	4

The pot is made of ceramic. Explain why a ceramic pot is more suitable for cooking than a metal pot. (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.*

*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)

0 pts

One day, Ms Tan could not find the glass lid of the slow cooker. So, she used a metal lid that she could find.

The diagram shows the metal lid that Ms Tan used.



When Ms Tan returned from work that day, she realised that the food was not fully cooked. Her mother said that it was because of the metal lid she used.

How did the metal lid cause the food to be not fully cooked?

[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.*

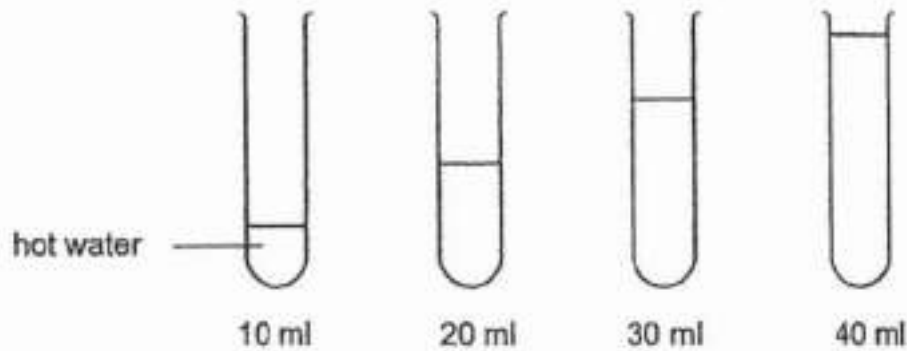
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

## Question 65 of 67

Primary 4 Science (Term 4)

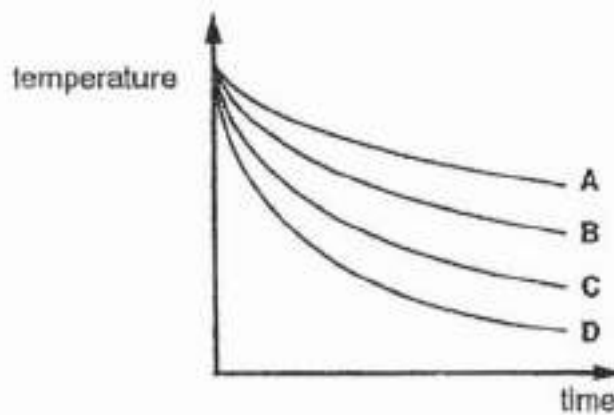
0 pts

Susan pours hot water of the same temperature into four similar tubes. The amount of hot water in each tube is different as shown below.



The water in each tube cools down. Susan measures and records down the temperature of water in each tube at the end of the experiment.

The graph shows her results.



Which line (A, B, C or D) shows the results for the tube with 40 ml of hot water? Explain 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.*

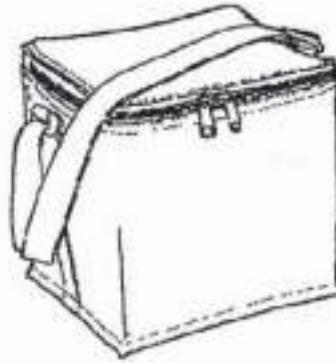
*Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.*

**Question 66 of 67**

Primary 4 Science (Term 4)

0 pts

The diagram shows a cooler bag. A cooler bag is used to keep drinks cold for a longer time.



A piece of foam, shown below, is used in between the inner and outer layers of the bag. The piece of foam consists of many tiny holes.



Explain how the foam help in keeping the drinks cold for a longer time. (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.*

*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.*

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**Question 67 of 67**

Primary 4 Science (Term 4) 0 pts

Kate bought a container of hot soup and a can of cold drink and placed them in the cooler bag.

When she reached her office, after 20 minutes, her container of hot soup had cooled down and the can of drink was no longer cold.

What could have caused the hot soup to cool down and the can of drink to be not as cold as when she bought it? (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.*

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