1. Look at the picture below.

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| A. Deer | B. Train | C. Banana tree | D. Bicycle | E. Skateboard |

Which one can not respond to stimuli?

1. A and C only
2. B and C only
3. A, C and E only
4. B ,D and E only

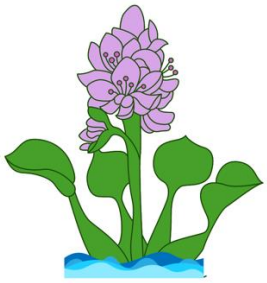
2. Look at the picture below, Classify plants into 2 groups.

| | | | |
|---|---|---|---|
| Group A |  Longan |  Rambutan |  Lychee |
| Group B |  Watermelon |  Tamarind |  Passion fruit |

Which criteria is the most fitting for classification?

1. Taste
2. Shape of the fruit
3. Number of seeds
4. Characteristics of the fruit's surface

3. Look at the picture below.



**Water hyacinth**



**Sunflower**

How are these two organisms similar? They both _____.

1. grow at the same rate
2. live in same pond
3. make their own food
4. respond to touch quickly

4. Look at the reptiles below.



**Cobra**



**Tortoise**



**Crocodile**

How are these reptiles similar?

1. They only feed on plants.
2. Their bodies are covered in scales.
3. They give birth to their young alive.
4. They have moist skin without any outer covering.

5. Scientists classify the following items.

|  |  |  |
|---|---|---|
| **Group 1** | **Group 2** | **Group 3** |

Which of the following classifications is correct for groups 1,2 and 3?

1. Shape of things
2. Benefit of utilizing
3. Ability to conduct heat
4. Type of material

6. Look at the pictures below.

**Group A**



**Group B**



Which of the following classifications is correct for groups A and B?

| | Group A | Group B |
|---|---|---|
| 1. | Cannot move | Can move |
| 2. | Cannot reproduce | Can reproduce |
| 3. | Live on land | Live in water |
| 4. | Capable of reacting to stimuli in a changing environment | Unable to react to changes in the environment |

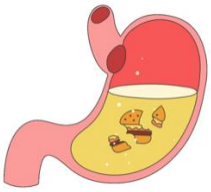
7. Which statement accurately explains the function of organs?
    1. Heart is responsible for pumping blood to various parts of the body.
    2. Stomach serves to expel waste.
    3. Lungs are responsible for absorbing water and food.
    4. Small intestine controls the body's functions.

8. From the classification of organs into 2 groups as follows:

    **Group A** : Brain, Heart, Small intestine

    **Group B** : Eyes, Ears, Nose, Mouth

From the picture of the stomach



I would like to know which group this organ should be placed in. What criteria are used for classification?

1. Group A uses organ function criteria.
2. Group A uses internal/external organ criteria.
3. Group B uses organ function criteria.
4. Group B uses internal/external organ criteria.

9. Look at the following pictures.



1.



2.



3.



4.




5.



6.

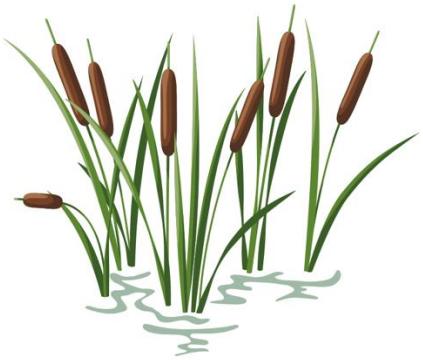


7.

How many living things are shown?

1. One
2. Two
3. Three
4. Four

10. Study the pictures of sample plant and answer the question.



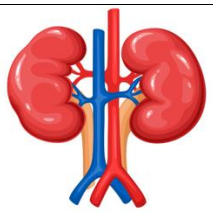
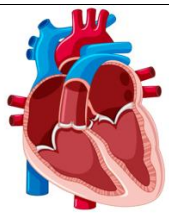
**sample plant : *Typha angustifolia L.***

I would like to know about the characteristics of the four plants. Which plants can be found in environments that are similar to the sample plants?

| | | | |
|---|---|---|---|
|  |  |  |  |
| **plant A : Lotus** | **plant B : Mango** | **plant C : Cactus** | **plant D : Fern** |

1. plant A
2. plant B
3. plant C
4. plant D

11. Which of the following are part of our circulatory system?

| | | | |
|---|---|---|---|
|  |  |  |  |
| **A : Blood vessel** | **B : Kidneys** | **C : Heart** | **D : Bronchus** |

1. A and C only
2. B and C only
3. C and D only
4. A ,B and C only

12. Look at the picture below.




What properties must the material used for making the tent have?

A. Flexible
B. Hard
C. Transparency
D. Waterproof

1. A only
2. A and C only
3. A and D only
4. B and D only

13. How are the four animals shown below similar?


**Parrot**


**Bat**


**Owl**


**Swan**

A. They have wings.
B. They reproduce by laying eggs.
C. They feed on other living things.
D. They have feathers to keep them warm.

1. A and B only
2. A , B and C only
3. A , C and D only
4. B, C and D only

14. Which of the following should be the correct method to remove a piece of food lodged in the windpipe?

1. 

2. 

3. 

4. 

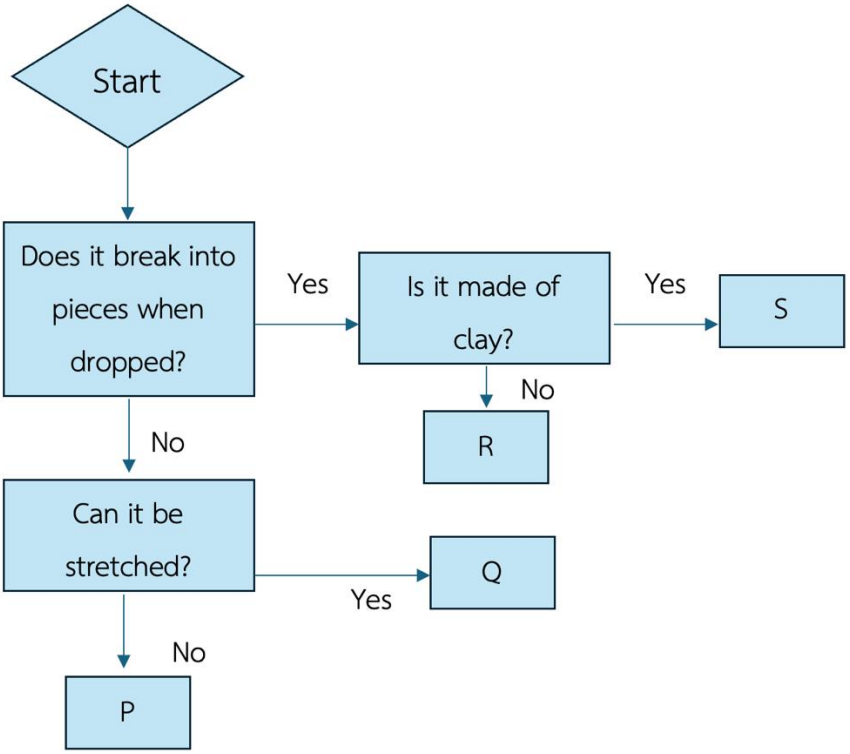
15. Kick boards used for swimming are usually made of styrofoam or foam rubber. Why are these materials suitable for making kick boards?




A. They are light.
B. They are opaque.
C. They can float on water.

1. A and B only
2. A and C only
3. B and C only
4. A, B and C

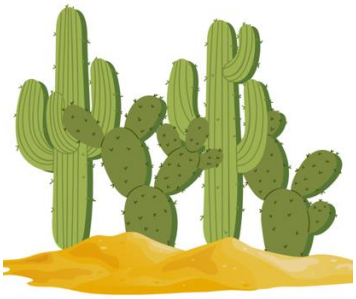
16. Study the flow chart below.




What can materials P, Q, R and S be?

| | P | Q | R | S |
|---|---|---|---|---|
| 1. | Iron | Paper | Glass | Ceramic |
| 2. | Paper | Ceramic | Rubber | Glass |
| 3. | Paper | Rubber | Glass | Ceramic |
| 4. | Rubber | Paper | Glass | Ceramic |

17. The diagram below shows a cactus plant.



What are the functions of the stem of the cactus?

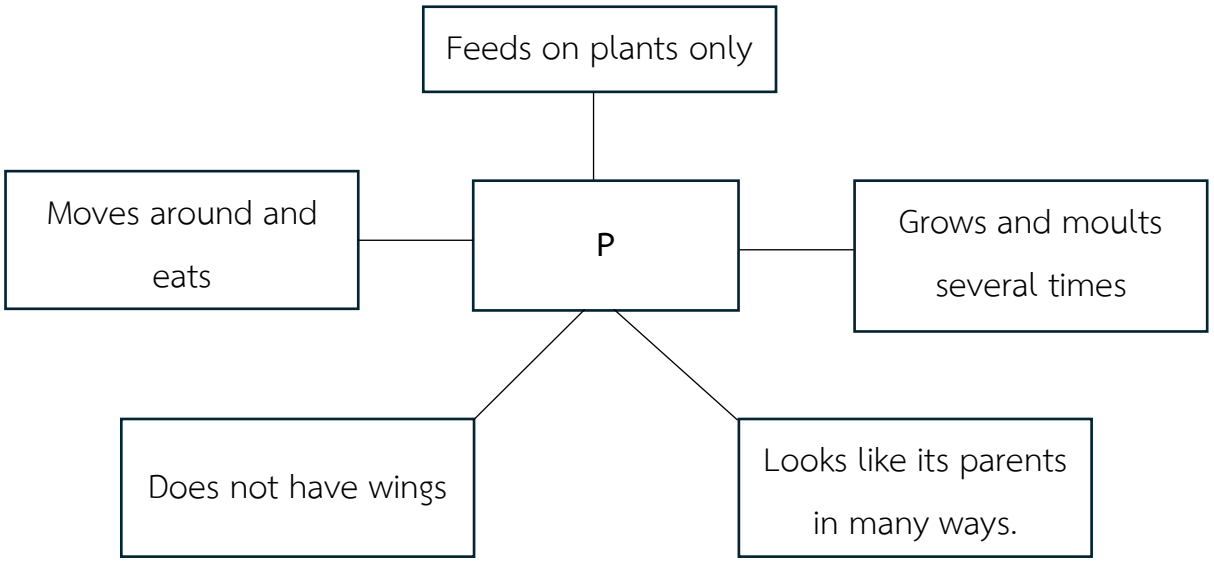
A. It makes food.

B. It stores water.

C. It takes in water from the surroundings.

1. A and B only
2. A and C only
3. A, B and C
4. None of the above

18. Study the concept map below.




P is probably the young of a _____.

1. Butterfly
2. Cockroachs
3. Flies
4. Grasshopper

19. The diagram below shows two different plant parts.



**Beetroot**



**Pumpkin**

How are these plant parts similar?

A. Both plant parts help in pollination
B. Both plant parts absorb water and mineral salts.
C. Both plant parts contain chlorophyll to trap light.
D. Both plant parts store extra food made by the leaves.

1. A only
2. D only
3. B and D only
4. C and D only

20. The flowers shown below are classified into two groups, A and B.

| Group A | Group B |
|---|---|
|  |  |
|  |  |
|  |  |

Which of the following flowers can be classified in group A?

A.



B.



C.

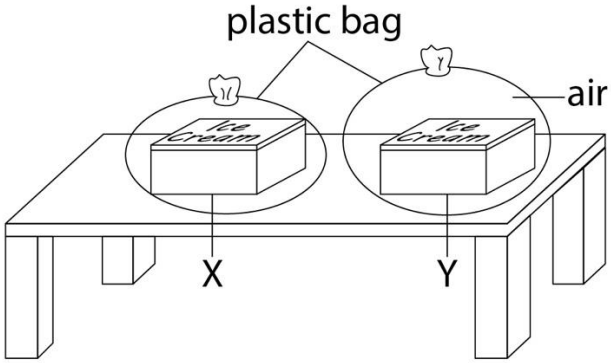


D.



1. C only
2. B and C only
3. A and C only
4. A, B and D only

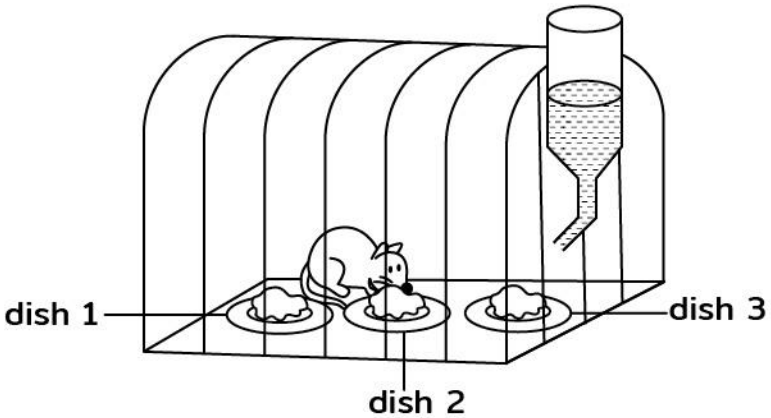
21. There were two tubs of ice cream, X and Y. Tub X was kept in a plastic bag without much air trapped in it. Tub Y was kept in a plastic bag with a lot of air trapped in it as shown.




Twenty minutes later, Rose opened up the two tubs of ice cream and found that the ice cream in tub X melted (changes from the solid phase to the liquid phase) faster than the ice cream in tub Y. What conclusion can be drawn from this observation?

1. The loos of heat can be reduced by air.
2. The gain of heat can be reduced by air.
3. Plastic is a poor conductor of heat.
4. The two tubs of ice cream have different melting temperatures.

22. The set-up shown below is used to investigate if hamsters prefer food of a certain colour.




Which of the following describes the best set-up used in the experiment?

1.

| Dish number | Dish 1 | Dish 2 | Dish 3 |
|---|---|---|---|
| Colour of dish | White | Green | Red |
| Colour of Food in dish | Green | Green | Green |

2.

| Dish number | Dish 1 | Dish 2 | Dish 3 |
|---|---|---|---|
| Colour of dish | White | White | White |
| Colour of Food in dish | Brown | Red | Green |

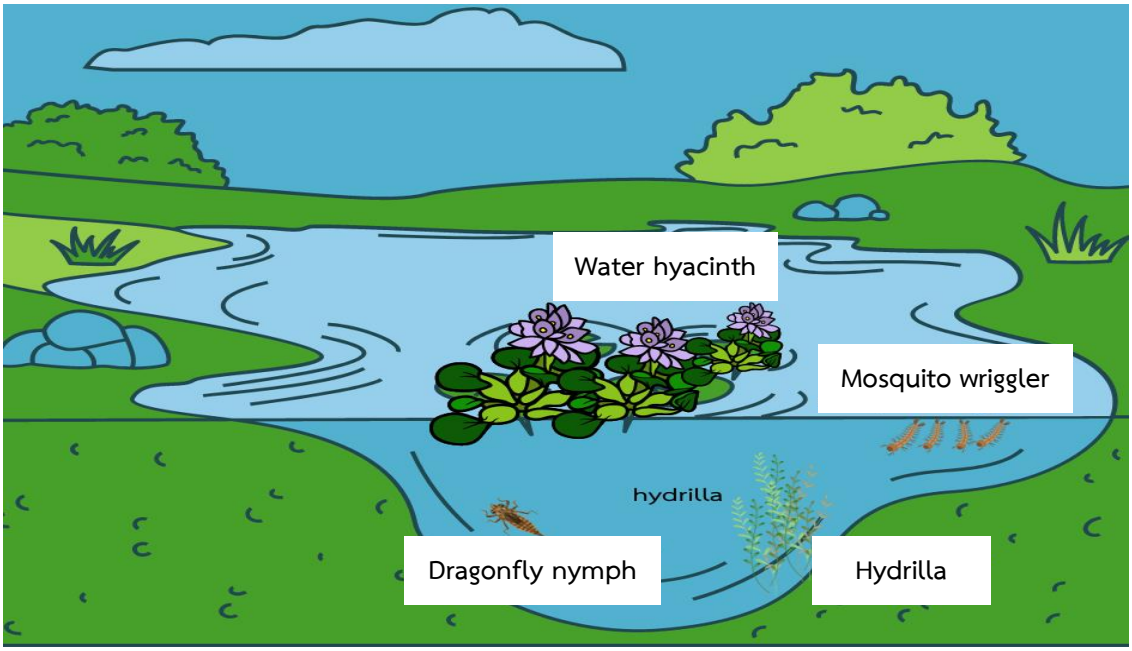
3.

| Dish number | Dish 1 | Dish 2 | Dish 3 |
|---|---|---|---|
| Colour of dish | White | Red | Brown |
| Colour of Food in dish | Green | Red | Brown |

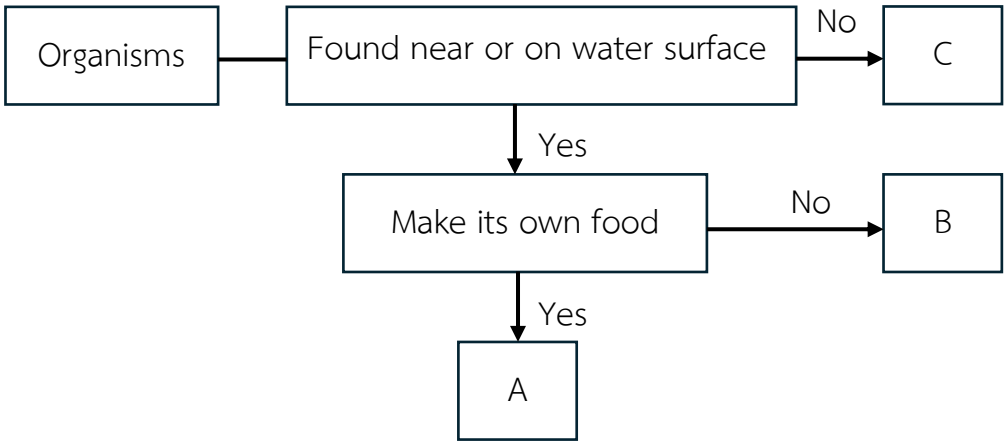
4.

| Dish number | Dish 1 | Dish 2 | Dish 3 |
|---|---|---|---|
| Colour of dish | Brown | Red | White |
| Colour of Food in dish | Red | Green | Brown |

23. The diagram below shows some organisms found at a pond.



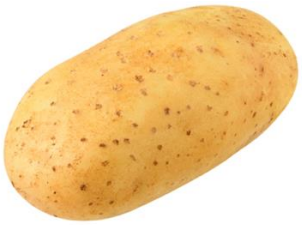

The identification of certain organisms in the pond can be seen in the flowchart below.




Which of the following organisms are correctly represented by letters A, B and C?

| | A | B | C |
|---|---|---|---|
| 1. | Mosquito wriggler | Dragonfly nymph | Hydrilla |
| 2. | Hydrilla | Mosquito wriggler | Water hyacinth |
| 3. | Water hyacinth | Mosquito wriggler | Dragonfly nymph |
| 4. | Dragonfly nymph | Hydrilla | Water hyacinth |

24. Study a part of a plant (Potato tuber) below.



**Potato tuber**

Which of the following is true of the plant part shown above?

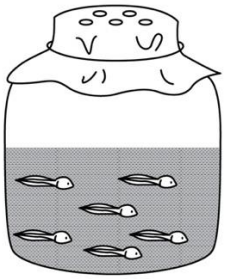
A. The plant part does not need energy.

B. The plant part stores excess food made by the plant.

C. Excess food is transported to the plant.

1. B only
2. A and C only
3. B and C only
4. A, B and C

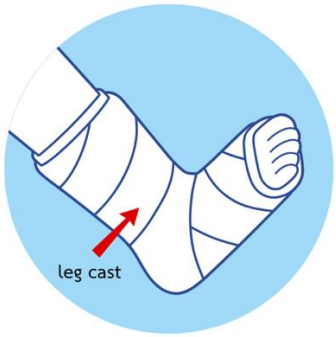
25. Tommy caught some tadpoles from a pond and kept them in a plastic jar half-filled with clear pond water. He covered the jar with a sheet of plastic. Then he pierced some holes on the sheet of plastic as shown below.



He observed the tadpoles 5 days. However, the tadpoles died. If he wants to study the growth of tadpoles next time, what should Tommy have done so that the tadpoles could stay alive?

1. Put some frogs into the jar.
2. Put some algae into the jar.
3. Change the water in the jar into seawater.
4. Put some flies or mosquitoes into the jar.

26. Gilbert had to wear a leg cast after a severe fall.




The leg cast helps to hold a/an _____ in place in order for it to heal.

1. bone
2. nail
3. skin
4. bone and skin

27. Jojo chose two hydrangea plants (Plant X and Plant Y) that are growing in his backyard and have similar strong growth. He then painted all the leaves and petioles of Plant X with a black color.



**Hydrangea X**



**Hydrangea Y**

After a few days, Jojo noticed that Hydrangea X had withered, but Hydrangea Y was still growing normally. Which is unlikely to be a cause that may cause hydrangea plant X to wither?

1. Plant X suffocated because the paint blocked the stomata. (The gap is where air enters and exits.)
2. Plant X lacks food because the paint blocks sunlight so it cannot produce food.

3. Plant X lacks water because the paint affects the water transport process.

4. Plant X lacks minerals needed to make food. Because the paint that is applied absorbs minerals.

28. Mariam wants to find out if the type of food her cat eats will affect how much water it will drink. She feeds her cat with a different brand of food for one week and records the amount of water the cat drinks for that week. Table below is the record of her experiment.

| **Brand of food** | A | B | C |
|---|---|---|---|
| **Amount of water drank (ml)** | 1500 | 2500 | 3500 |

What is the independent variable in Mariam's experiment?

1. The size of the cat
2. The brand of food
3. The amount of food
4. The amount of water

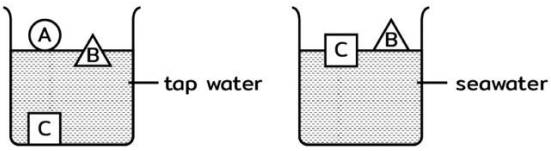
29. Nin's table displays pulse rates from four different activities.

| **Activity** | **Pulse rate (beats per minute)** |
|---|---|
| Taking a sleep | 75 |
| Mountain climbing | 120 |
| Reading a magazine | 80 |
| Jogging in the park | 100 |

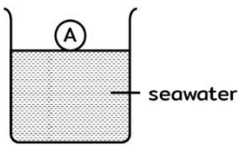
Which activity used the most amount of energy?

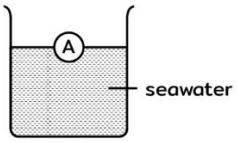
1. Taking a sleep
2. Reading a magazine
3. Jogging in the park
4. Mountain climbing

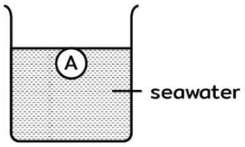
30. The diagrams below show what happens when objects A, B, and C are placed in a container of tap water, and when objects B and C are placed in a container of seawater.

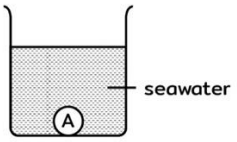



Which one of the following shows what happens to object A when it is placed in the container of seawater?

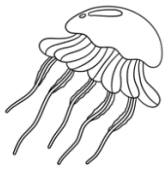
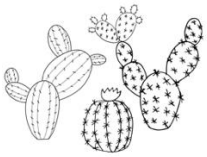
1.



2.



3.


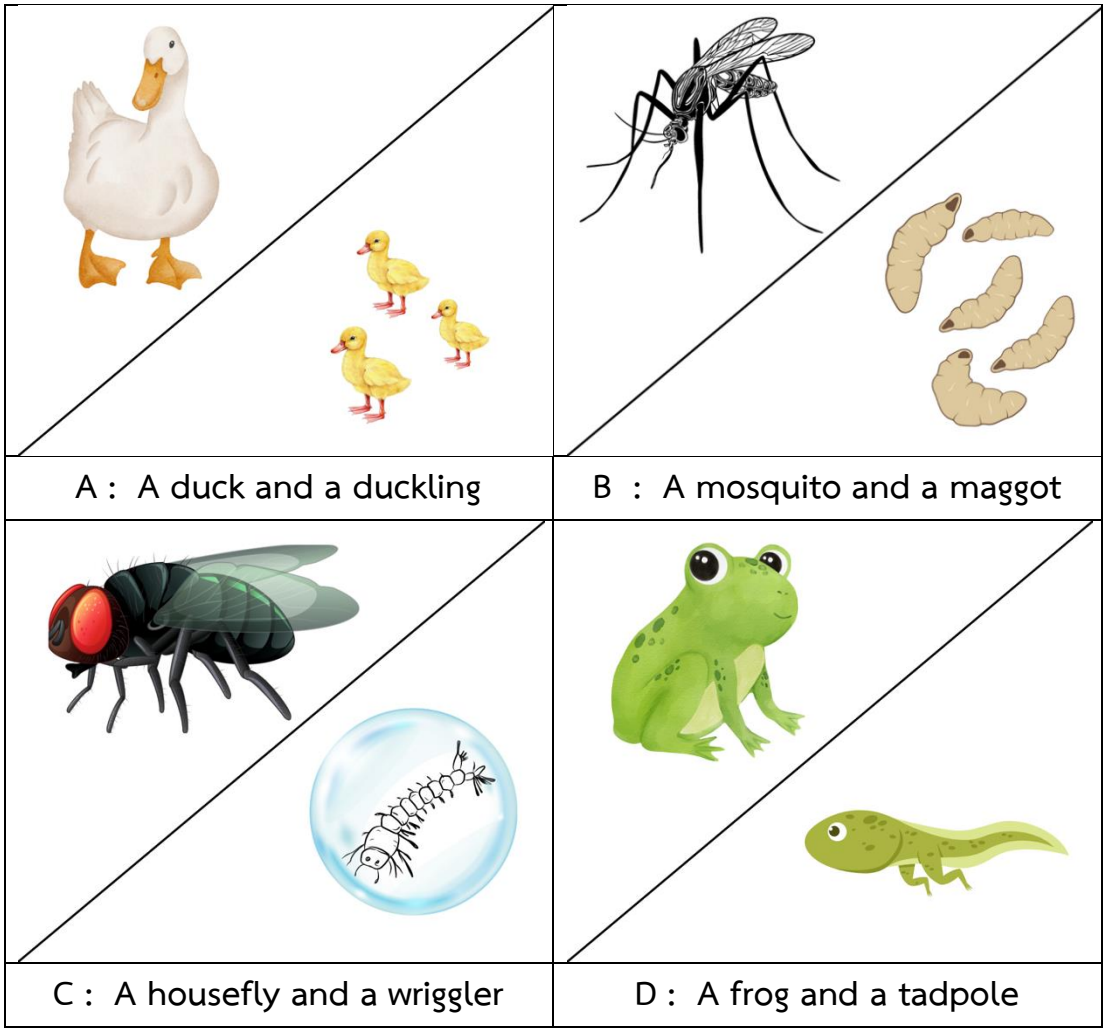

4.



31. Which of the following group of things need water to stay alive

| Jellyfish | Toadstool | Cactus | Duck |
|---|---|---|---|
|  |  |  |  |
| **Starfish** | **Mushroom** | **Camel** | **Pig** |
|  |  |  |  |
| **A** | **B** | **C** | **D** |

1. A only
2. A and B only
3. A ,B and D only
4. A, B, C and D

32. Which of the following diagrams show (s) the adult and its young correctly?




1. D only
2. A and D only
3. A, B and D only
4. A, B, C and D

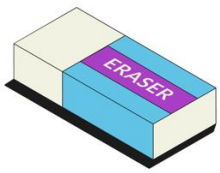
33. Compare an adult frog and its young.

| | Young | Adult |
|---|---|---|
| A | Breathes with gills | Breathes through skin and lungs |
| B | Has an outer covering of scales on its skin | Has no outer body covering on its skin |
| C | Lives in water and on land | Lives only on land |

Which of the comparisons is/are true?

1. A only
2. B only
3. A and B only
4. A and C only

34. Lula observed the following objects.

|  |  |  |  |
|---|---|---|---|
| **Coin** | **Eraser** | **Book** | **Key** |

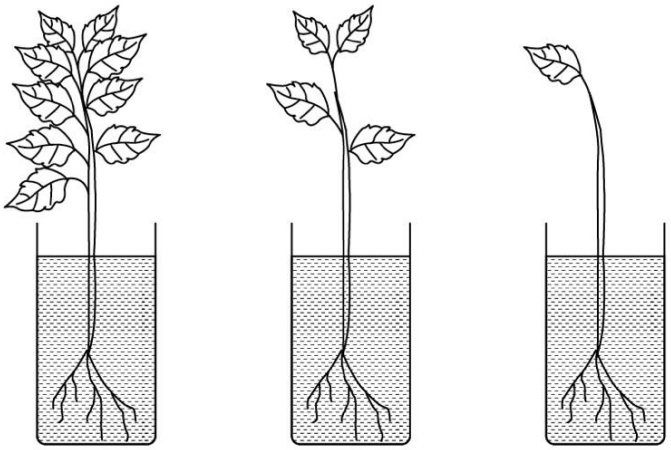
She made the following inferences.

A. They will not break into pieces when dropped.
B. They are made from things that were once alive.
C. They are made of different materials that have different flexibility.
D. They are made from the same type of material.

Which of the inferences that Lula made are correct?

1. C only
2. A and B only
3. A and C only
4. A, B ,C and D

35. The following diagrams show some plants in containers of water at the start of an experiment. The plants are left inside a room for a few days.



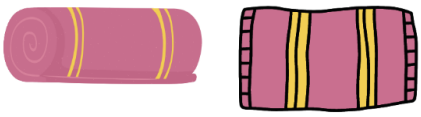
**Set up A** **Set up B** **Set up C**

Which of the following questions can be answered by the experiment?

1. Do the stems of plants transport water to the leaves?
2. Do plants absorb more water if they have more leaves?
3. Do the roots of plants absorb more water than the leaves?
4. Do the leaves of plants make more food if there is more water?

36. Ticha did an experiment with two identical towels. First, she roll up towel A and spread out towel B. Then, she poured the same amount of water onto the towels. After that, she placed the towels under a fan and let the wind blew at them. After every 5 minutes, she weighed the towels. The table below shows the results of her experiment.





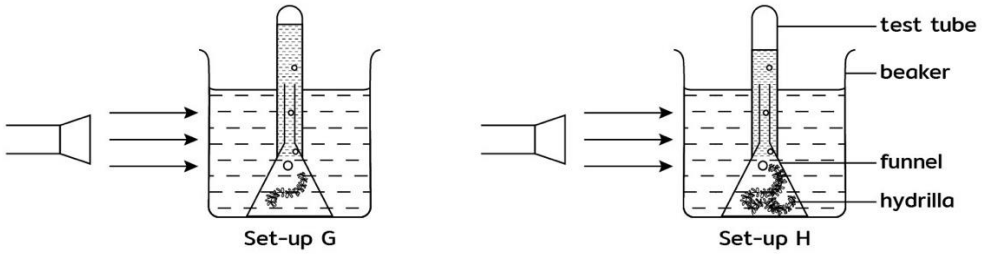
towel A towel B

| Time (minutes) | towel A (g) | towel B (g) |
|---|---|---|
| 0 | 250 | 250 |
| 5 | 248 | 240 |
| 10 | 246 | 228 |
| 15 | 240 | 214 |

How can the difference between the masses of the towels during the experiment be explained?

1. Water evaporates faster from towel A because of surface area was bigger than towel B.
2. Water evaporates slower from towel A because of the stronger wind blowing at it.
3. Water evaporates faster from towel B because of surface area was bigger than towel A.
4. Water evaporates slower from towel B because of the stronger wind blowing at it.

37. Daniel carried out an experiment by placing an inverted test tube containing water over a beaker of water with different number of hydrilla plants inside the funnel of each set-up. He placed a torch at the same distance away from the plant for one hour as shown in the diagram below.



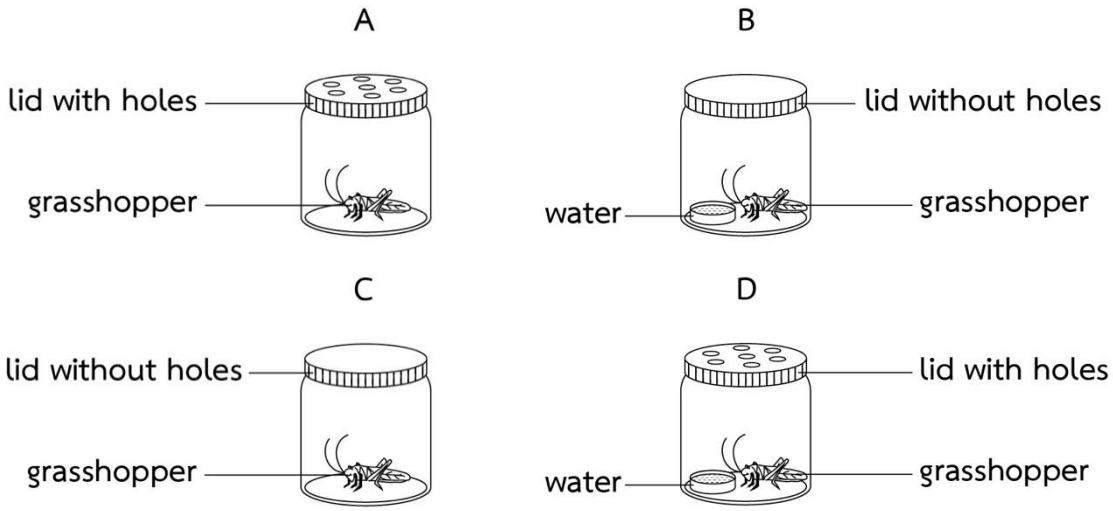

He recorded the number of bubbles released from each set-up in the table below.

| Set-up | G | H |
|---|---|---|
| **Number of hydrilla plant(s)** | 1 | 5 |
| **Number of bubbles produced** | 10 | 58 |

What was the aim of Daniel's experiment?

1. The type of torch affects the number of bubbles produced.
2. The type of plant affects the number of bubbles produced.
3. The number of hydrilla plants inside the funnel affects the number of bubbles produced.
4. The distance between torch and hydrilla plants affects the number of bubbles produced.

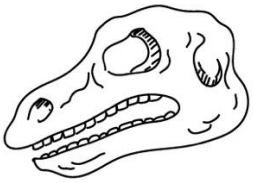
38. Kimberly set up four jars, A, B, C and D, as shown in the diagrams below.



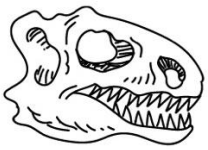

Which two jars should Kimberly use to find out whether a grasshopper needs air to survive?

1. A and B
2. A and C
3. B and C
4. C and D

39. The diagrams below show the teeth of animals X and Y.



Animal X



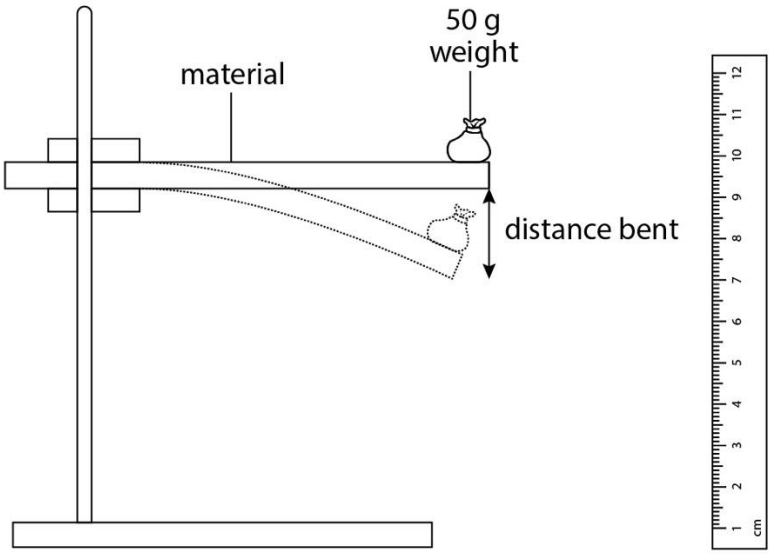
Animal Y

Which of the following characteristics is/are correct?

| | Topic | True /False /Not possible to tell |
|---|---|---|
| A. | Animal Y is a carnivore (an animal that eats meat). | True |
| B. | Animal X is an herbivore. (an animal that eats only plants) | True |
| C. | Animal X has sharp vision. | Not possible to tell |
| D. | Both animals are omnivores. (an animal that is naturally able to eat both plants and meat) | False |

1. D only
2. A and B only
3. A, B and C only
4. A, B, C and D

40. Six types of materials are cut into the same size. The set-up below is used to compare the flexibility of the materials.




The results of the test is shown in the table.

| Material | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| **Length of material (cm)** | 12 | 12 | 12 | 12 | 12 | 12 |
| **Distance bent (cm)** | 5 | 3 | 2 | 4 | 0 | 3 |

Which one of the following is not supported by the test results?

1. Material B is as flexible as material F.
2. Material A is the most flexible.
3. Material C is the least flexible.
4. Material E is not flexible.

# คำตอบวิชาวิทยาศาสตร์ ชั้นประถมศึกษาปีที่ 1

| ข้อ | คำตอบ | ข้อ | คำตอบ |
|---|---|---|---|
| 1 | 4 | 21 | 2 |
| 2 | 3 | 22 | 2 |
| 3 | 3 | 23 | 3 |
| 4 | 2 | 24 | 1 |
| 5 | 2 | 25 | 2 |
| 6 | 4 | 26 | 1 |
| 7 | 1 | 27 | 4 |
| 8 | 2 | 28 | 2 |
| 9 | 3 | 29 | 4 |
| 10 | 1 | 30 | 1 |
| 11 | 1 | 31 | 4 |
| 12 | 3 | 32 | 2 |
| 13 | Free* | 33 | 1 |
| 14 | 2 | 34 | 3 |
| 15 | 2 | 35 | 2 |
| 16 | 3 | 36 | 3 |
| 17 | 1 | 37 | 3 |
| 18 | 4 | 38 | 2 |
| 19 | 2 | 39 | 4 |
| 20 | 2 | 40 | 1 |

* หมายเหตุ : ข้อ 13 เนื่องจากคำศัพท์ที่ใช้ในชุด A , B ต่างกัน อาจทำให้เกิดความเข้าใจที่คลาดเคลื่อน