Instructions :

1. Each question carries a different score, as indicated at the end of the question.

2. Students must select only the one best answer for each question.

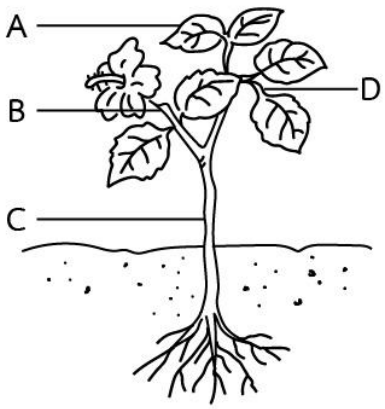
1. Some animals are grouped in a classification table as shown below.

Group X	Group Y	Group Z
Eagle Kingfisher Hummingbird	Cobra Earthworm	Beetle Butterfly Termite

Which characteristic can be used to group the animals above? (2.5 marks)

1. How they move around
2. The number of legs they have
3. The type of food they feed on
4. The type of outer body covering they have

2. Sally wants to find out which parts of a plant have water-carrying tubes.



She cut parts A, B, C, and D of the plant open. Which of the parts as shown in the diagram above contain water-carrying tubes? (2.5 marks)

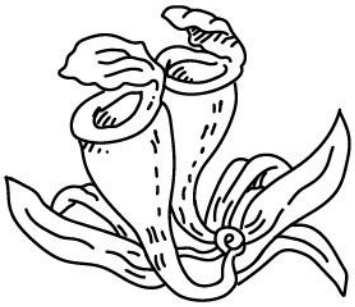
1. A and B only
2. B and C only
3. A, B, and C only
4. A, B, C, and D

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3. The diagram below shows two green plants.



Long bean plant

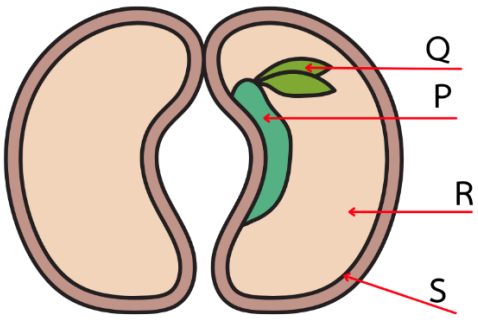


Pitcher plant

Which of the following statements about both plants is correct? (2.5 marks)

1. They do not have stems.
2. They make their own food.
3. They need support to grow well.
4. They obtain part of their nutrients from animals.

4. The diagram below shows the cross-section of a seed.



Which part of the seed provides food for the seedling? (2.5 marks)

1. P
2. Q
3. R
4. S

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5. Consider the following statement.

A. Some plants reproduce through spores.

B. Plants cannot reproduce from plant parts.

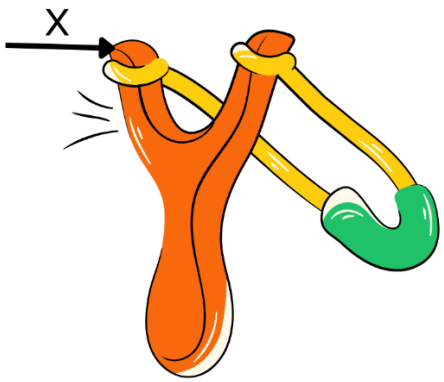
C. The amount of time spent in different stages of the same plant are the same.

D. Different kinds of plant seeds take the same amount of time to complete their life cycle.

Which of the following statements about plants are false? (2.5 marks)

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

6. The part labeled X in the slingshot shown below is made of wood.



Wood is suitable for making part **X** because (2.5 marks)

1. it cannot be bent easily
2. it can be stretched easily
3. it is a bad conductor of heat
4. it is a good insulator of electricity

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7. Scientists find that some areas of Earth receive sunlight for longer than usual during a certain part of the day, while other areas experience extended darkness. Which phenomenon can explain this? (2.5 marks)

1. Earth's rotation on its axis
2. Changes in the Sun's brightness
3. The movement of clouds covering the Sun
4. Earth's revolution around the Sun

8. In an experiment on air expansion, a teacher places an inflated balloon near a lit light bulb. Which of the following is the predicted outcome and the correct reason? (2.5 marks)

1. The balloon will inflate slightly because the air inside gets heated and expands.
2. The balloon will deflate because the heat from the light bulb causes air molecules to coalesce.
3. The balloon will change color because the light from the bulb chemically reacts with the balloon's color.
4. The balloon will not change because the light from the bulb is not hot enough to affect the air.

9. Which of the following best describes the property of sound propagation in different mediums? (2.5 marks)

1. Sound travels fastest in solids and slowest in gases.
2. Sound travels fastest in liquids because they have optimal density.
3. Sound cannot travel in a vacuum but travels well in space.
4. Sound travels at the same speed in all mediums because it is a wave.

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10. Consider the following statement.

A. The time of sunrise and sunset.

B. The distance between the Earth and the Sun.

C. The length of shadows throughout the day.

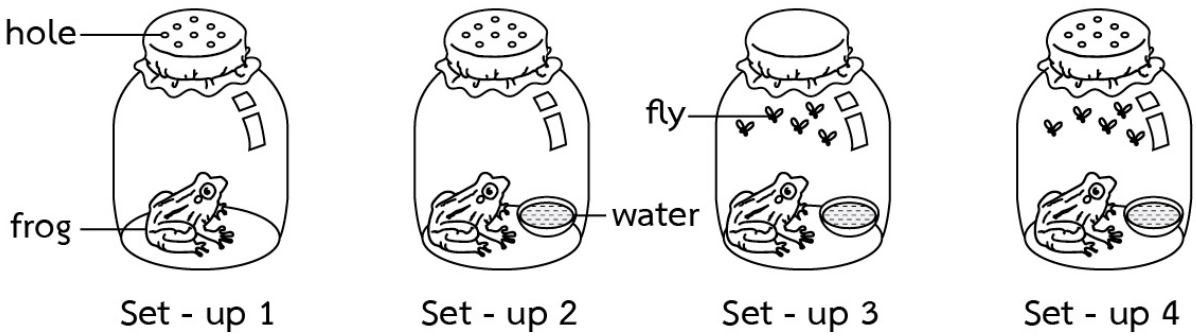
D. The shape of the Earth.

Which of the following changes over time due to the Earth's rotation?

(2.5 marks)

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

11. An experiment as shown below.

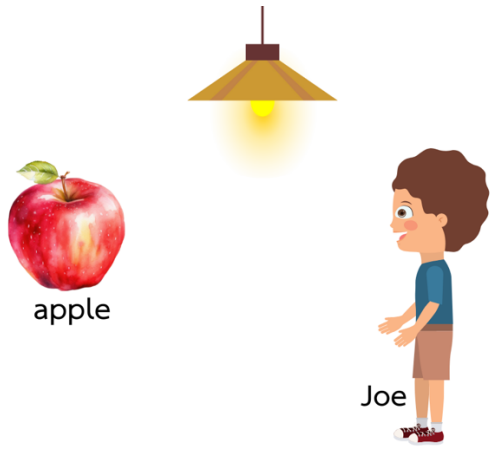


If you want to compare whether the air is necessary for the survival of frogs or not, which pair of the experiments should you compare? (3.5 marks)

1. Set-up 1 and Set-up 2
2. Set-up 2 and Set-up 3
3. Set-up 3 and Set-up 4
4. Set-up 1 and Set-up 3

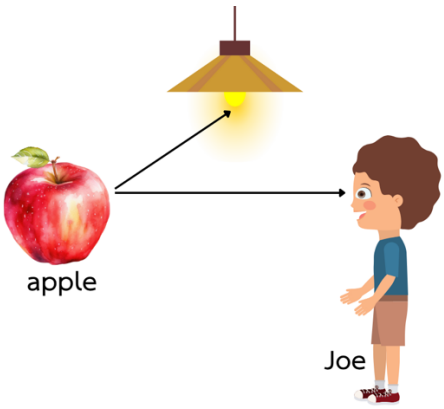
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12. Study the diagram below.

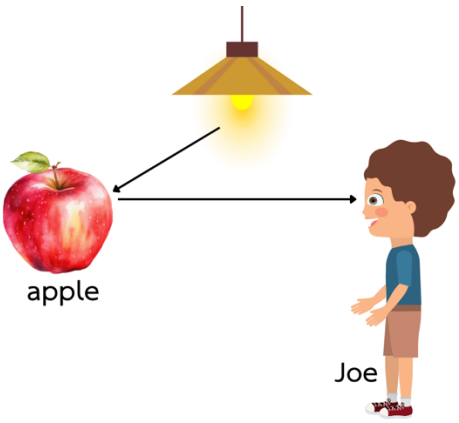


What is the path that light takes to enable Joe to see the apple? (3.5 marks)

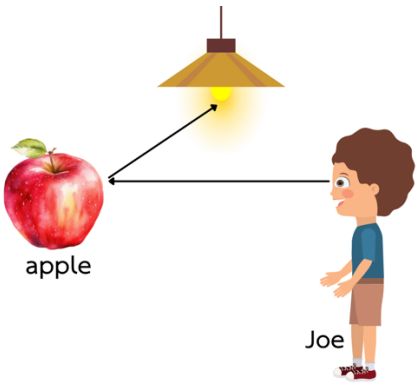
1.



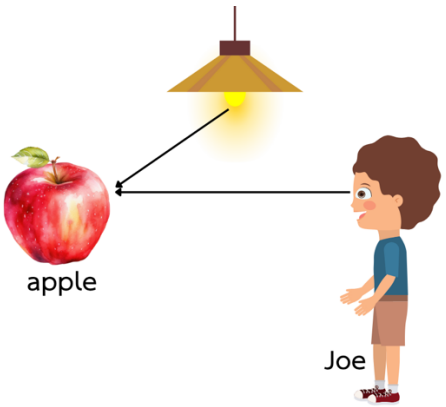
2.



3.



4.



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13. Nikky conducted an experiment on the water-holding properties of four soils, W, X, Y, and Z. She took 100 grams of each type of soil and poured 50 cm^3 of water into the containers as shown in the picture. She set a timer for 10 minutes and recorded the amount of water flowing through the four soils.



Type of soil	amount of water (cm^3)
W	12
X	40
Y	28
Z	0

From the experiment, if Nikky wants to grow a cactus , which type of soil should be the most suitable? (3.5 marks)

1. Soil W
2. Soil X
3. Soil Y
4. Soil Z

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14. A scientist carried out an experiment and obtained the following results.

Temperature (°C)	Amount of bacteria M at start of experiment (units)	Amount of bacteria M after 15 seconds (units)
35	100	120
60	100	40
90	100	30
100	100	10

Which statement is correct? (3.5 marks)

1. Most bacteria died at 90 °C.
2. Some bacteria M died at 100 °C.
3. Bacteria M reproduced the fastest at 100 °C.
4. Bacteria M reproduced at all the four temperatures.

15. Desmond placed two similar pots of plants, P and Q, in an open space. He measured the height of each plant after two weeks. The table below shows the set-up for each plant.

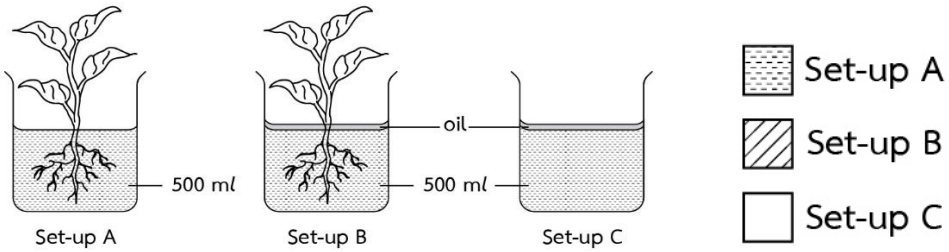
Pots of plants	Type of soil	Amount of fertiliser given (g)	Amount of water given Daily (mL)
P	Garden soil	10	80
Q	Garden soil	0	80

Desmond was trying to investigate whether the growth of a plant is affected by the _____. (3.5 marks)

1. type of soil
2. presence of water
3. location of the pots
4. presence of fertiliser

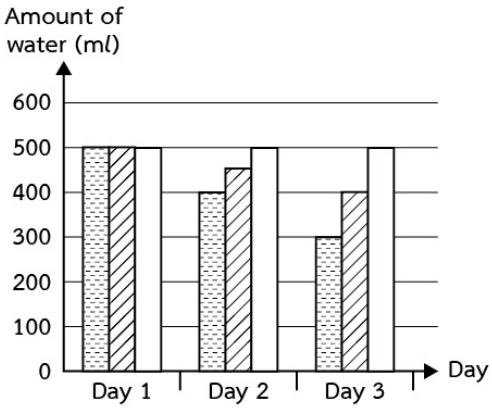
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16. Joseph set up the following experiment.

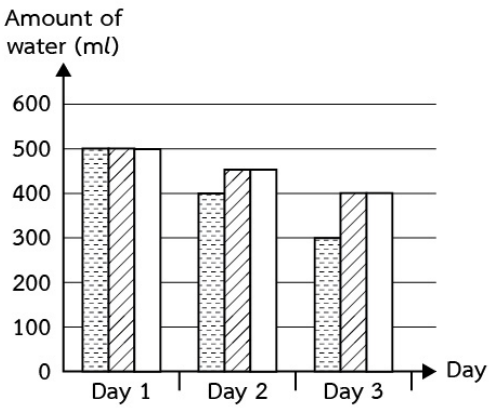


He left the three set-ups near an open window for three days and recorded the amount of water in each set-up every day. He plotted his results in a bar graph. Which of the following bar graphs correctly shows the amount of water in each set-up over the three days? (3.5 marks)

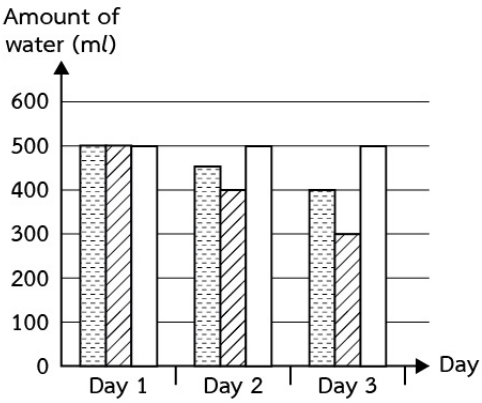
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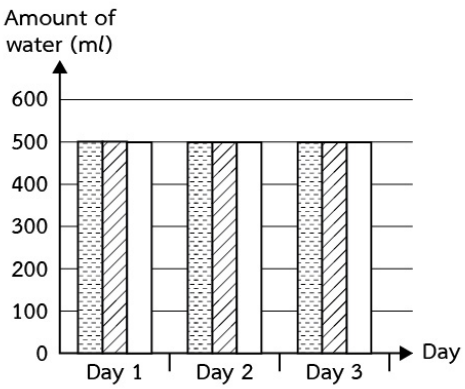
2.



3.

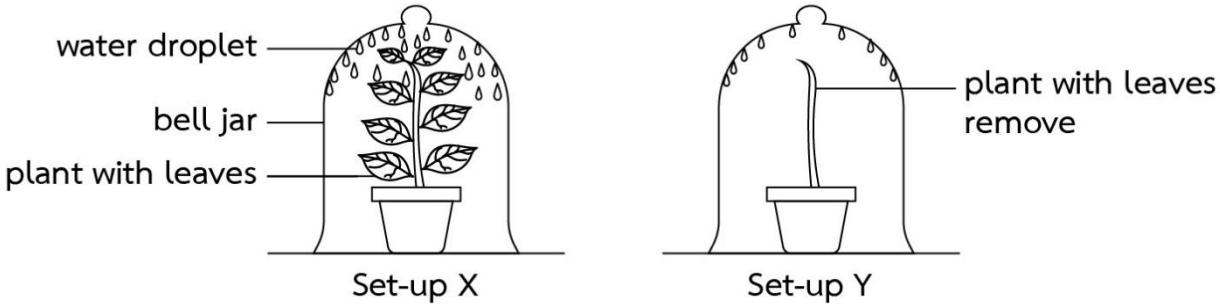


4.



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17. Jenny placed a plant under a bell Jar in Set-up X and another plant without leaves under a bell jar in Set-up Y.



She left the two set-ups in a garden overnight. The next morning, she found a lot of water droplets on the inner surface of the bell jar in Set-up X but only a few water droplets on the inner surface of the bell jar in Set-up Y.

What is the aim of the experiment? (3.5 marks)

1. To find out if plants photosynthesize through their leaves
2. To find out if plants give off water vapour through their leaves
3. To find out if plants give off oxygen through their leaves
4. All the answers are correct

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18. The experiment on the properties of the stone is shown in the table below.

Type of rock	Properties of the stone			
	Surface	Acid corrosion resistance	Surface	Color
A	Rough with small holes	+++	+	Light color
B	Smooth	+	+++	Dark color
C	Smooth	++++	+++	Light color
D	Smooth	+	++	Light color

Note + means it has a level value of 1

++++ means it has a level value of 4

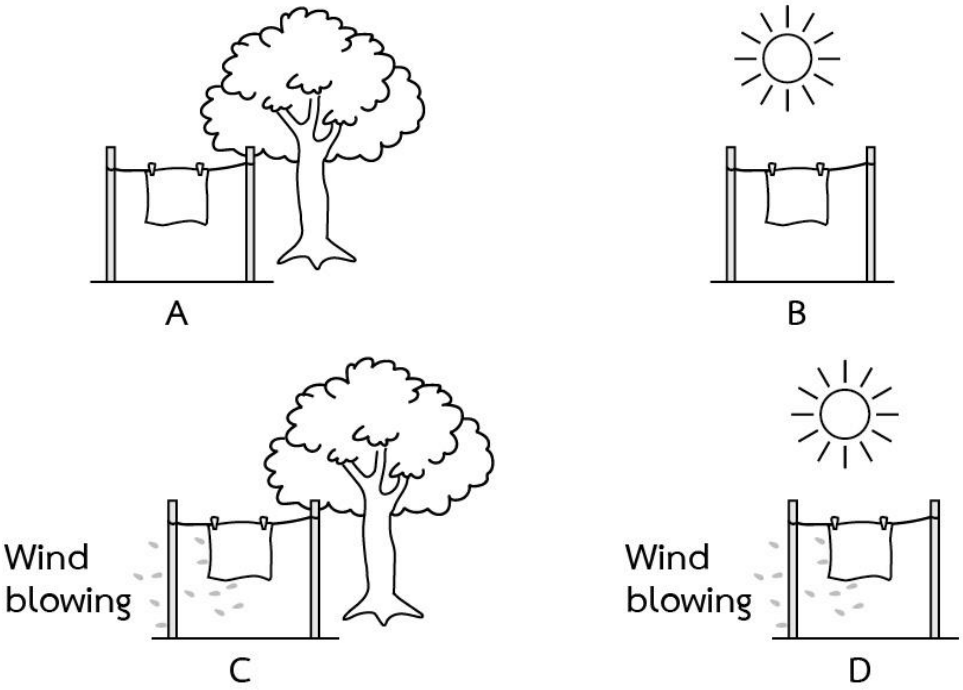
What kind of stone is suitable for use as flooring in a chemical laboratory?

(3.5 marks)

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

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19. Lisa washed four similar handkerchiefs and hung them out to dry at four different locations as shown below.

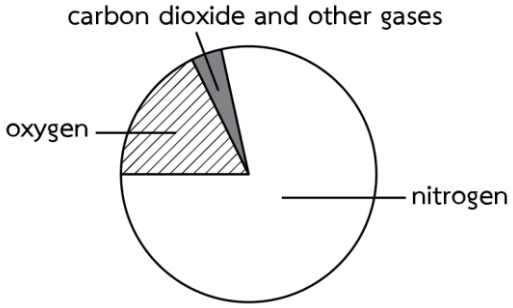


Which handkerchief will be the first to dry? (3.5 marks)

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

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20. The pie chart shows the composition of gases found in the air.



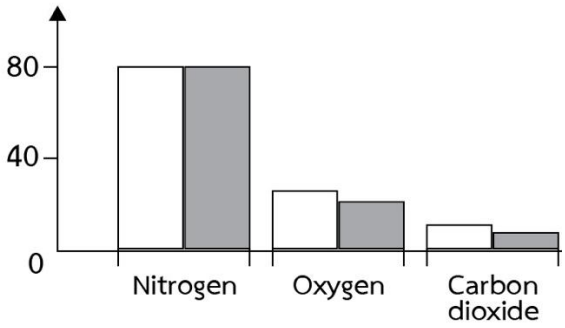
Which one of the following graphs correctly shows the possible percentages of gases breathed in and out by a healthy person? (3.5 marks)

Legend

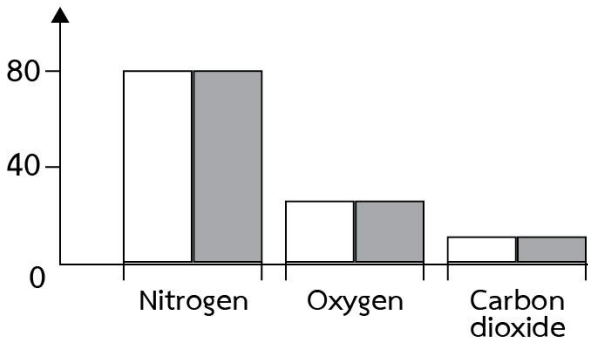
percentage of gas beathe in

percentage of gas beathe out

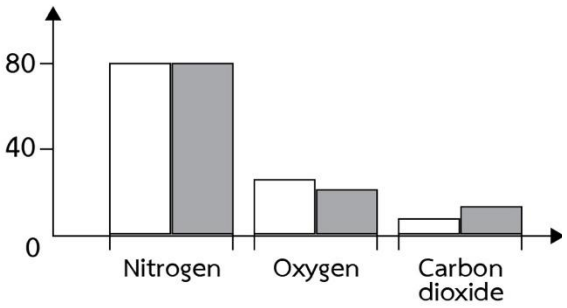
1.



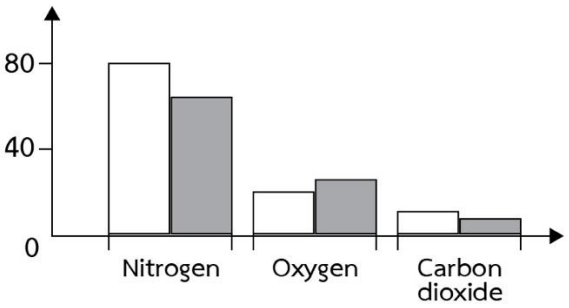
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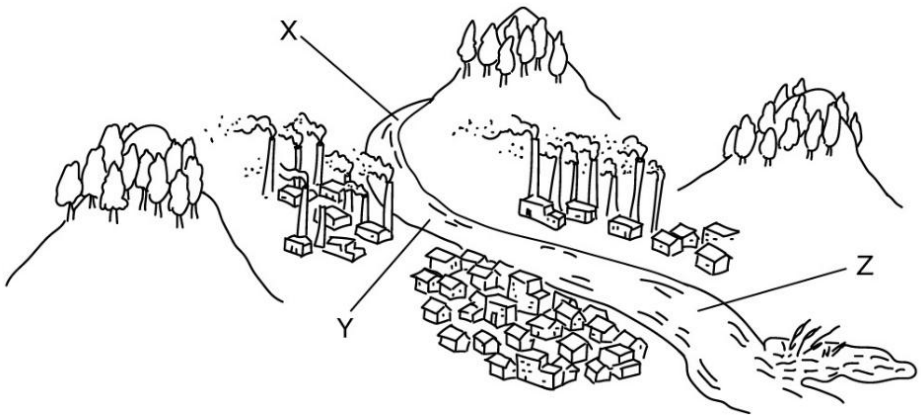


4.



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21. Waste materials from homes and factories were dumped into a river shown below. Alisa collected water samples from parts X, Y, and Z of the river.



She poured the water samples into tanks A, B, and C. Ten goldfish were placed into each tank. The number of goldfish was counted after two days, and the result was recorded as shown below.

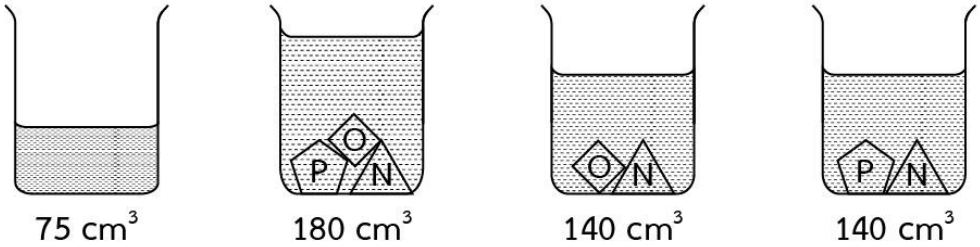
Tank	Number of goldfish after two days
A	1
B	4
C	8

Which parts of the river, X , Y or Z, were the water samples in tanks A, B and C collected from? (4.5 marks)

	Tank / Part of the river		
	A	B	C
1.	X	Y	Z
2.	Y	X	Z
3.	Z	Y	X
4.	X	Z	Y

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22. Study the diagram below carefully. The same volume of water is present in each beaker.



75 cm^3 180 cm^3 140 cm^3 140 cm^3

Which of the following statements is/are correct? (4.5 marks)

A. The volume of object P is 40 cm^3.

B. Objects O and P have the same volume.

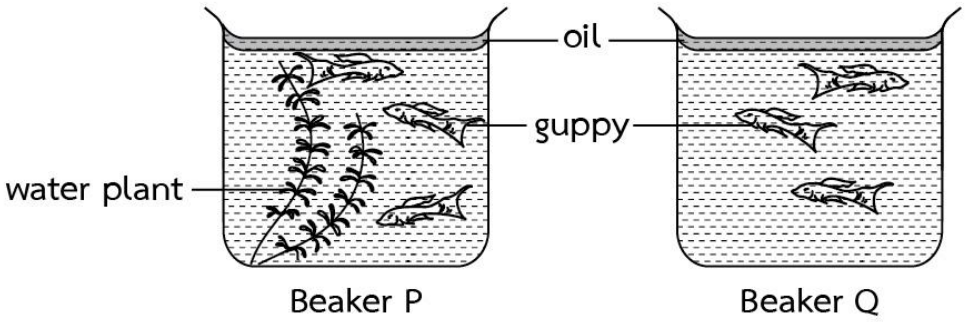
C. The total volume of objects O and N is 140 cm^3.

D. Of the three objects, object N has the smallest volume.

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

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23. Galilian put 500 mL of water into each of two identical beakers, P and Q. Then, he put the same number of guppies into each beaker. Both beakers had a layer of oil on the water surface but only beaker P had aquatic plants.



After two hours, he observed that some of the guppies in beaker Q died. Which of the following explain(s) his observation? (4.5 marks)

A. The oil killed the guppies in beaker Q.

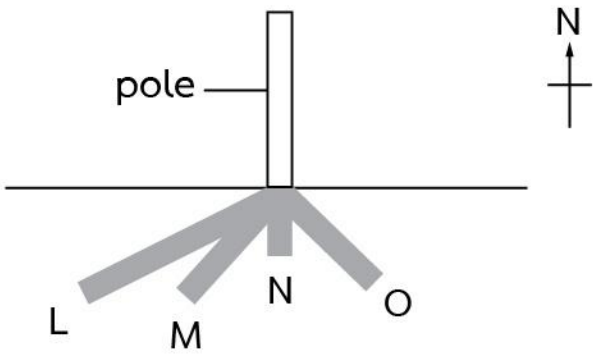
B. There was not enough oxygen in beaker Q.

C. There was no food for the guppies in beaker Q.

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

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24. The following diagram shows the shadows L, M, N and O cast by a pole at different times on a sunny day.



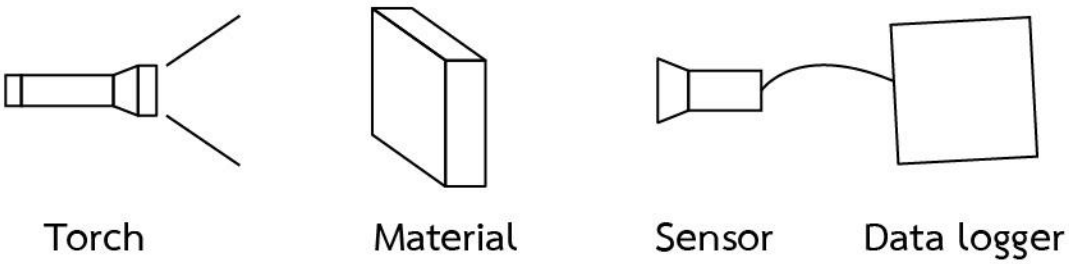
Which of the following correctly shows the times at which the shadows were cast?

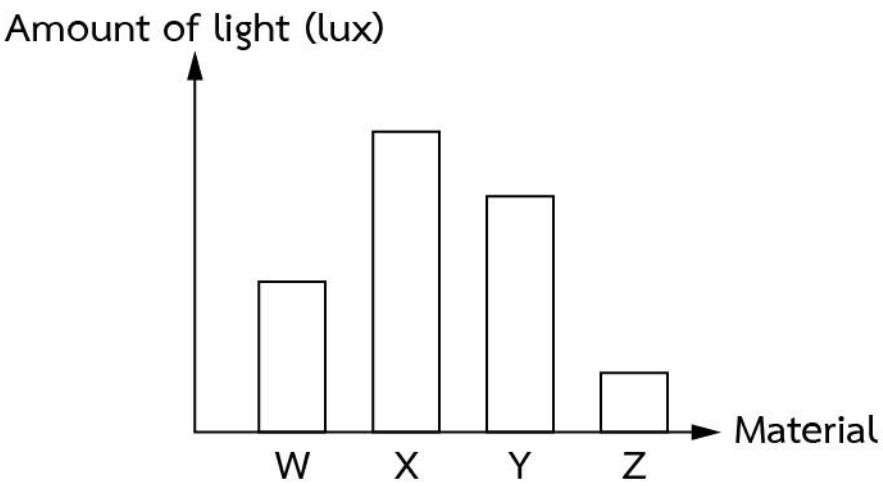
(4.5 marks)

	L	M	N	O
1.	17:00	14:00	Noon	8:00
2.	8:00	10:00	Noon	14:00
3.	Noon	14:00	8:00	17:00
4.	14:00	8:00	10:00	Noon

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25. Benjamin connected a light sensor to a data logger. He then tested four different materials to see how much light can pass through each material.





Which of the following is the best choice to make a curtain for a bedroom so that the room will be dark? (4.5 marks)

1. W
2. X
3. Y
4. Z

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26. Company ASMOPSS manufactures raincoats for sale.



The table below shows the properties of four materials W, X, Y and Z.

Material	Properties			
	Waterproof	Transparent	Flexible	Light
W	✓	✓	✗	✗
X	✗	✓	✓	✓
Y	✓	✗	✗	✓
Z	✗	✗	✓	✓

Which of the materials, W, X, Y or Z should company ASMOPSS use to make their raincoats? (2.5 marks)

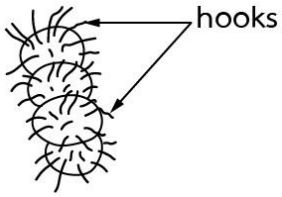
1. W
2. X
3. Y
4. Z

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27. Scientists have discovered a very small organism in a harsh environment on another planet. This organism cannot move by itself but can change size and multiply when certain nutrients are present. Based on this information, can this organism be classified as "living"? (3.5 marks)

1. It is not a living organism because it cannot move.
2. It is a living organism because it can change size and multiply.
3. It is not a living organism because it cannot respond to stimuli.
4. It is a living organism because it can reproduce when nutrients are available.

28. The diagram below shows the fruit of a certain plant.

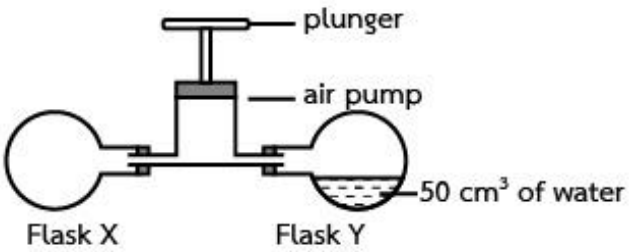


Based on the diagram, which of the following statements about the hooks on the fruit is correct? (3.5 marks)

1. The hooks tear open the fruit when it is ripe, dispersing the seeds around the parent plant.
2. The hooks attract animals to eat the fruit and pass the seeds further away from the parent plant.
3. The hooks increase the surface area of the fruit, allowing the wind to carry the fruit further away from the parent plant.
4. The hooks enable the fruit to stick onto the fur of animals, enabling the fruit to be carried further away from the parent plant.

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29. Two identical flasks X and Y are joined to an air pump as shown in the diagram below.



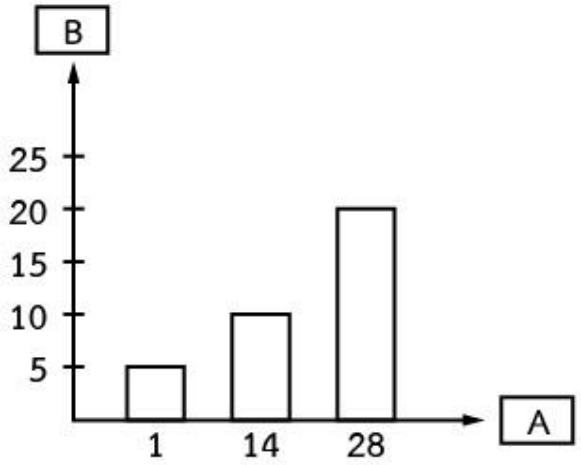
Each flask has a capacity of 300 cm^3. Every time the plunger of the air pump is pushed down, 100 cm^3 of air will be pumped into the flasks.

Which of the following best represents the volume of air in the two flasks after the plunger is pushed twice? (3.5 marks)

	Flask X (cm^3)	Flask Y (cm^3)
1.	500	500
2.	300	250
3.	300	300
4.	500	450

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30. Daniel caught five grasshoppers and kept them in a container with some grass. After a few weeks, he observed that there were more grasshoppers in the container. He recorded his observations in the graph below.



Which of the following best represents A and B? (4.5 marks)

	A	B
1.	Number of grasshoppers	Amount of grass
2.	Number of grasshoppers	Number of days
3.	Number of days	Number of grasshoppers
4.	Amount of grass	Number of days

---------- End of Questions ----------

Please check your answers before submitting the answer sheet.

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คำตอบวิชาวิทยาศาสตร์ ชั้นประถมศึกษาปีที่ 3

ข้อ	คำตอบ	ข้อ	คำตอบ
1	2	21	3
2	4	22	3
3	2	23	1
4	3	24	2
5	3	25	4
6	1	26	3
7	4	27	4
8	1	28	4
9	1	29	2
10	3	30	3
11	3		
12	2		
13	2		
14	2		
15	4		
16	1		
17	2		
18	3		
19	4		
20	3		

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