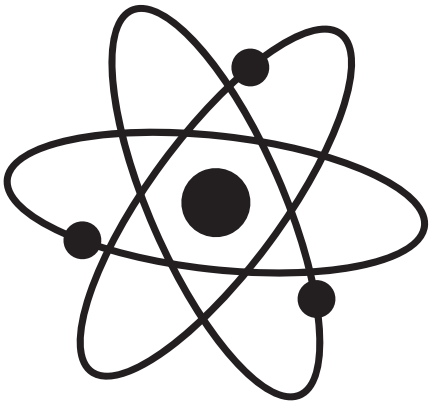
ASMOPSS THAILAND 2026

Asian Science & Mathematics Olympiad for Primary and Secondary Schools (Thailand)

Science Primary G.3



Sunday, August 9, 2026

10:30 a.m. – 12:00 p.m. (90 minutes)

B

Instructions

1. This exam includes 30 questions, with 4 choices given (100 marks).
2. Use a 2B black pencil or darker one to fill in the circle.
3. Fill out your name, grade, school, test center, room, seat number, and identification number either in pen or in pencil.
4. If you want to change an answer that you have already marked, use a clean eraser to erase the incorrect answer and mark the new one.
5. It should be noted that figures in the exam are not drawn to scale.
6. Dictionaries, calculators, and electronic devices are not permitted in the test room.
7. Note taking can be done on the test paper only, with no extra sheet provided.
8. Do not write anything or make any symbols in the black barcode area along the edge of the paper except the answers on the answer sheet. Make sure the answersheet is not crumpled.
9. Submit the answer sheet to the proctor when the time is up.
10. Cheating in the exam may cause serious consequences including disqualification from receiving any award or joining the second round of the test held by ASMOPSS THAILAND.

Should any disagreement arise, the judgment of the panel is deemed final.

Announcement of the results via https://asmopssthailand.com on September 14, 2026

: ASMOPSS Thailand / Miraah Education

Contact US

LINE @asmopss.thailand

LINE @miraah.edu

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. Andrew found some seeds stuck to his socks after walking around a park. He recorded some of their characteristics as follows:

A : They have tiny hooks.

B : They are small and round.

C : They are light.

Based on the information above, how are these seeds most likely dispersed? (2.5 marks)

1. By wind
2. By water
3. By animals
4. By splitting of fruit

2. Study the diagrams below.

A.	B.
	

Which of the following statements is true about the two living things shown above? (2.5 marks)

A : They can move from place to place.

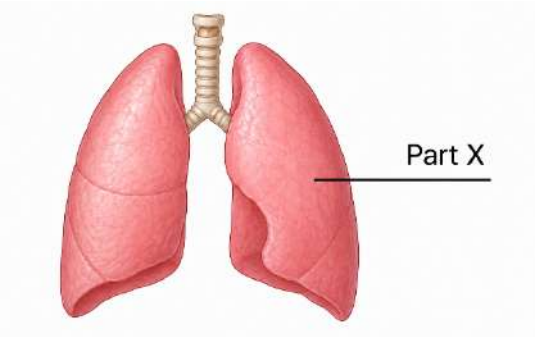
B : They need air and water to survive.

C : They need sunlight to make their own food through photosynthesis.

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

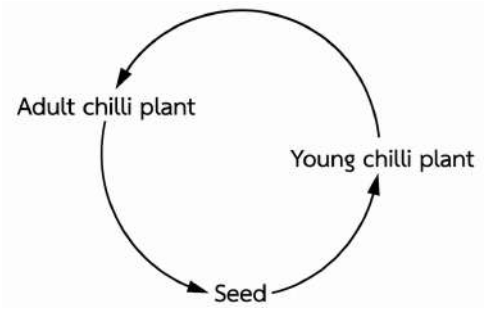
3. Look at the diagram below.



Which of the following is a function of part X? (2.5 marks)

1. It protects the heart.
2. It allows gas exchange between the air and the blood.
3. It breaks down food into simpler substances.
4. It pumps blood to all parts of the body.

4. Cindy studied the life cycle of a chili plant and drew the diagram below.



Cindy wrote down the following statements. (2.5 marks)

A : A seed develops after fertilisation takes place.

B : A seed germinates and grows into a seedling (young plant).

C : A seed is dispersed so that it can obtain food for germination.

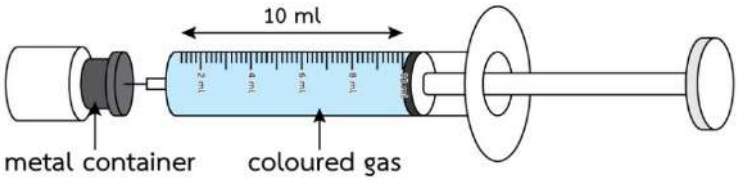
D : A seed contains genetic information that is passed from one generation to the next.

Which of the statements are true?

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

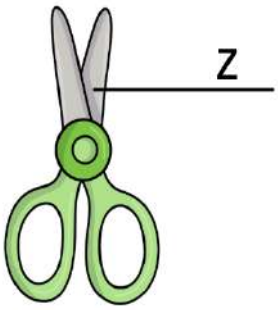
5. A 10 mL sample of coloured gas is injected into an empty 5 mL sealed metal container.



The coloured gas spreads out to completely fill the container. What property of gases does this experiment demonstrate? (2.5 marks)

1. The coloured gas has no mass.
2. The coloured gas has no volume.
3. The coloured gas has a definite shape.
4. The coloured gas has no definite volume.

6. The diagram below shows a pair of scissors.

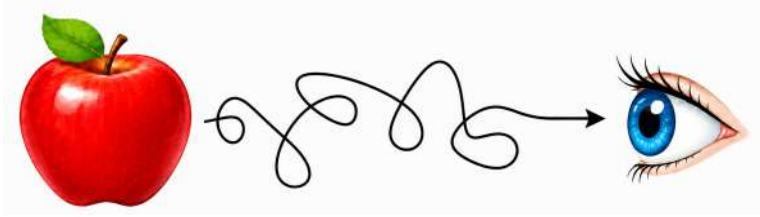


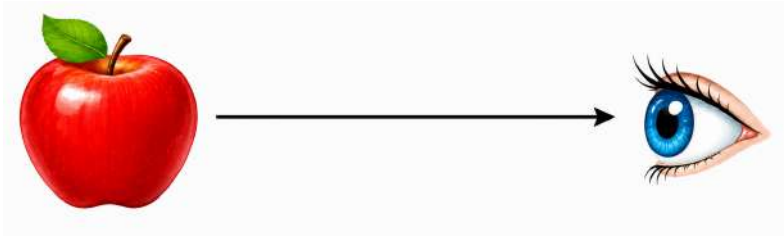
Which material is part Z made of, and why is this material used? (2.5 marks)

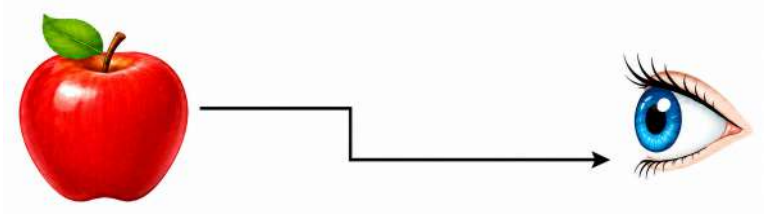
Choice	Material	Reason
1.	Metal	It is strong.
2.	Glass	It allows light to pass through.
3.	Fabric	It is absorbent.
4.	Rubber	It is flexible.

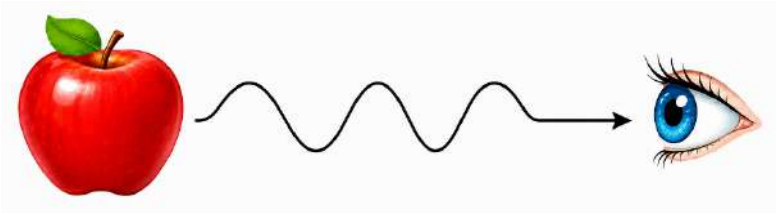
Copyright © 2026 ASMOPSS. All Rights Reserved.

7. Which diagram correctly shows the path of light that enables us to see an apple? (2.5 marks)

1. 

2. 

3. 

4. 

8. Which of the following items is made using rock as its main raw material? (2.5 marks)

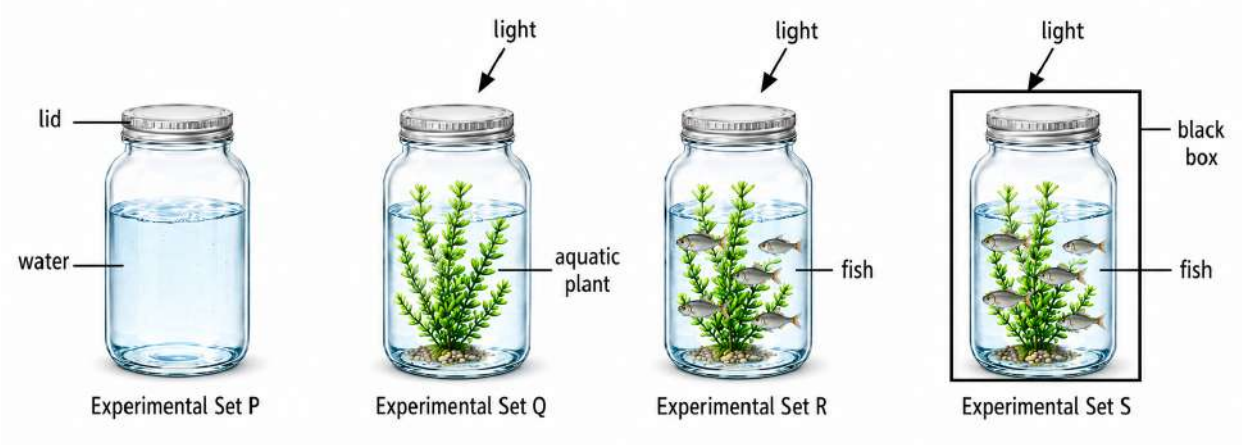
1. Cement
2. Paper
3. Plastic
4. Eraser

Copyright © 2026 ASMOPSS. All Rights Reserved.

9. A potter wants to make a ceramic vase. Which type of soil should he use, and why? (2.5 marks)

1. Loamy soil, because it contains a large amount of organic matter and has a loose texture.
2. Sandy soil, because its particles are large and do not stick together.
3. Clay soil, because it has fine particles, is sticky, and can be moulded into shape.
4. Sandy loam, because it drains water well and does not bind tightly.

10. Roy sets up four experiments as shown below and places them in a sunny location. (2.5 marks)



If he wants to investigate how the amount of light affects the amount of oxygen produced by the aquatic plant, which two set-ups should he compare?

1. Set-ups P and Q
2. Set-ups P and R
3. Set-ups R and S
4. Set-ups Q and R

Copyright © 2026 ASMOPSS. All Rights Reserved.

11. Students prepared two identical boxes containing equal amounts of soil and dry leaves. (3.5 marks)



Box P contained earthworms.



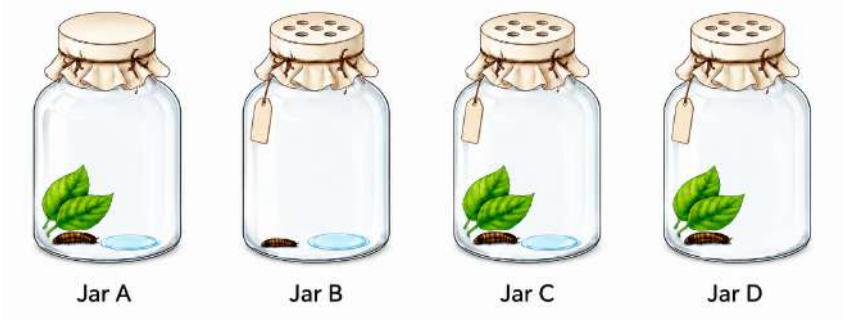
Box Q did not contain any earthworms.

After two weeks, the students observed that the leaves in Box P were broken into smaller pieces, the soil was looser, and more pieces of leaves were mixed into the soil than in Box Q. Which of the following is the best analysis of the results?

1. Earthworms cause all the minerals in the soil to disappear.
2. Earthworms change the water in the soil into air.
3. Earthworms make the soil compact and remove all the air spaces.
4. Earthworms help break down dead plant material into smaller pieces and mix it into the soil.

Copyright © 2026 ASMOPSS. All Rights Reserved.

12. Rena placed one caterpillar in each of four jars of the same size, labelled A, B, C and D. The conditions inside the jars were different, as shown in the diagram below. The leaves used in the experiment were fresh and contained water.
(3.5 marks)

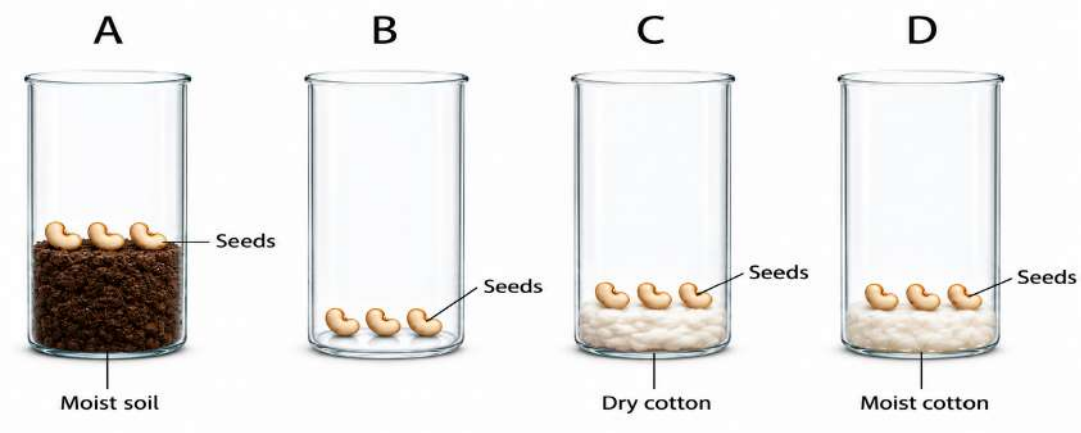


Which option correctly identifies the jar in which the caterpillar would die first and survive the longest?

Choice	Die first	Survive the longest
1.	A	C
2.	B	A
3.	C	D
4.	D	B

Copyright © 2026 ASMOPSS. All Rights Reserved.

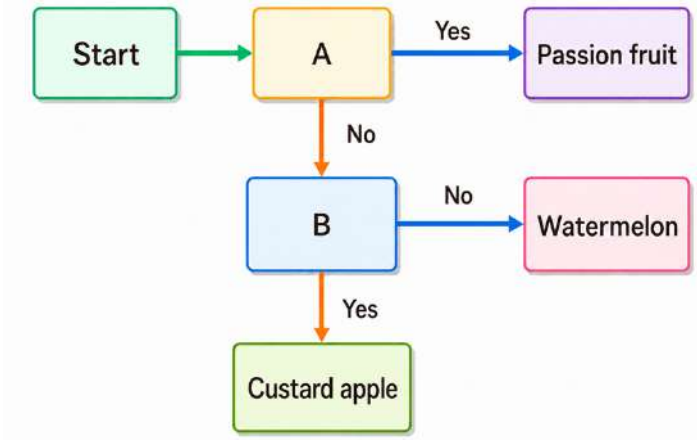
13. Study the four set-ups shown below.



In which set-up(s) will the seeds fail to germinate? (3.5 marks)

1. B only
2. A and D only
3. B and C only
4. All the seeds will germinate.

14. Study the classification chart shown below.

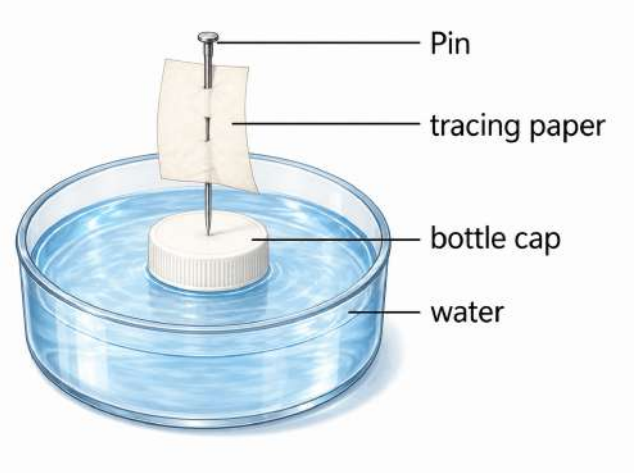


Which of the following correctly identifies the properties A and B? (3.5 marks)

Choice	A	B
1.	Fruits with smooth skins	Fruits with one seed
2.	Inedible fruits	Fruits with rough skins
3.	Fruits with a sour taste	Fruits with rough skins
4.	Fruits with many seeds	Fruits with smooth skins

Copyright © 2026 ASMOPSS. All Rights Reserved.

15. Tina made a toy using a bottle cap, a pin and a piece of tracing paper. She placed it in a basin of water, as shown below.



Which of the following properties of the bottle cap and the tracing paper allow the toy to move across the water when the wind blows against it? (3.5 marks)

Choice	Bottle cap	Tracing paper
1.	Ability to float	Light weight
2.	Light weight	Waterproof
3.	Waterproof	Waterproof
4.	Transparent	Non-waterproof

Copyright © 2026 ASMOPSS. All Rights Reserved.

16. The table below shows the number of paper clips attracted by an iron nail after it was stroked repeatedly in the same direction with a magnet. (3.5 marks)

Number of strokes	Number of paper clips attracted
0	0
50	1
100	3
150	4

Which of the following conclusions is supported by the results?

1. An iron nail becomes a magnet after being stroked 30 times with a magnet.
2. An iron nail becomes a stronger magnet when stroked with a stronger magnet.
3. An iron nail will attract five paper clips after being stroked 200 times with a magnet.
4. An iron nail becomes a stronger magnet as the number of strokes increases.

Copyright © 2026 ASMOPSS. All Rights Reserved.

17. "Dad, can we get that hamster with the dark patch around its right eye?" Jason asked.



Why was Jason able to describe the hamster to his father so clearly even though he was outside the pet shop?

A : The glass window allowed light to pass through.

B : Light from inside reflected from the hamster passed through the glass window and entered their eyes.

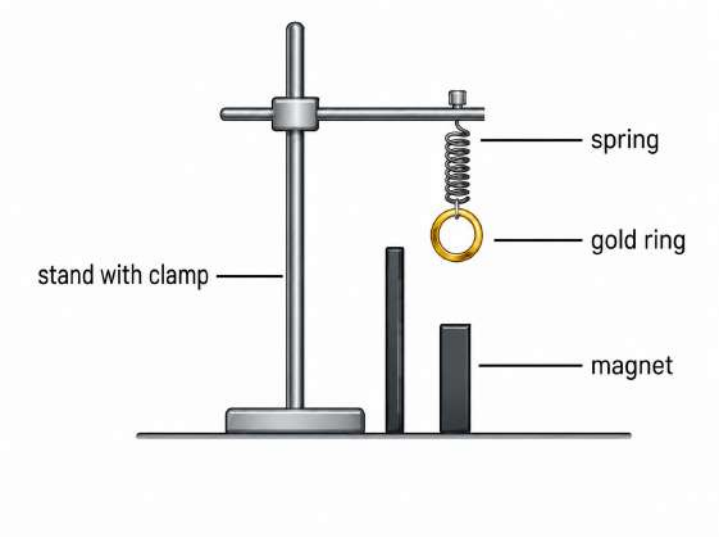
C : Light from inside the pet shop could not pass through the glass window.

Which of the following statements is correct? (3.5 marks)

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

18. A jewelry shop found four labelled rings made of gold, iron, silver and steel. To identify which materials were attracted to a magnet, a student placed each ring on a smooth surface. He slowly moved a magnet towards each ring and measured the maximum distance at which the ring began to move towards the magnet.



The results are shown in the table below.

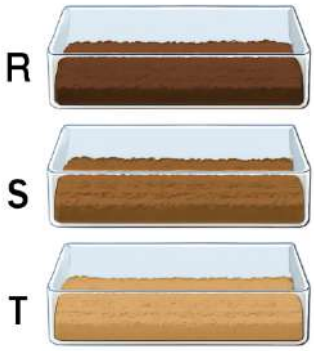
Material of ring	Maximum distance at which the ring began to move (cm)
Gold	0
Iron	6
Silver	0
Steel	4

Which conclusion is best supported by the results? (3.5 marks)

1. All metals are attracted to a magnet.
2. Gold and silver are attracted to magnets more strongly than iron and steel.
3. Iron and steel are attracted to a magnet, but gold and silver are not.
4. The distance at which a ring moves does not depend on its material

Copyright © 2026 ASMOPSS. All Rights Reserved.

19. Three soil samples with the same initial mass were placed in the sun for one day, as shown below. The mass of each soil sample was then measured again, and the results were recorded in the table.



Soil sample	Mass before drying (g)	Mass after drying (g)
R	200	170
S	200	185
T	200	195

Based on the data, which soil sample contained the greatest amount of water before being placed in the sun? (3.5 marks)

1. Soil R, because its mass decreased the most.
2. Soil S, because its mass after drying was in the middle.
3. Soil T, because it had the greatest mass after drying.
4. All three soil samples contained the same amount of water because they had the same initial mass.

Copyright © 2026 ASMOPSS. All Rights Reserved.

20. During the summer holidays, Ton noticed that bright sunlight shone through his bedroom window at 7.00 a.m. However, there was hardly any sunlight coming through the window in the afternoon.

Based on this information, which direction does Ton's bedroom window most likely face? (3.5 marks)

1. North
2. South
3. East
4. West

21. Melvin prepared five identical containers labelled P, Q, R, S, and T. He placed the same amount of dry leaf litter in each container and left them at different locations around the school. The table below shows the conditions in each container.

Container	Location	Temperature (°C)	Condition in the leaf litter
P	Beside a window	29	Dry
Q	In an open field	35	Damp
R	In the cupboard	24	Damp
S	Under a rain tree	26	Dry
T	In the corner of a room	25	Damp

After one month, in which container or containers would Melvin most likely find the greatest number of animals? (4.5 marks)

1. P and S
2. R and T
3. Q, R, and T
4. R, S, and T

Copyright © 2026 ASMOPSS. All Rights Reserved.

22. Pauline recorded the changes in the number of fish in her pond from March to May, as shown in the table below.

Fish	Sex	March	April	May
guppies	female	8	5	4
	male	8	6	6
goldfish	female	3	3	2
	male	4	4	3
tiger barbs	female	2	2	1
	male	2	1	0
rainbowfish	female	5	4	4
	male	3	2	2
Total number of fish		**35**	**27**	**22**

Pauline made the following statements based on the information in the table.

A : There were 27 populations of fish in April.

B : In March, the population sizes of guppies, goldfish, tiger barbs, and rainbowfish were 16, 7, 4, and 8, respectively.

C : In May, the number of female fish was greater than the number of male fish.

D : There were four fish communities in Pauline's pond.

Note:

A population is a group of organisms of the **same species** living in the same area at the same time.

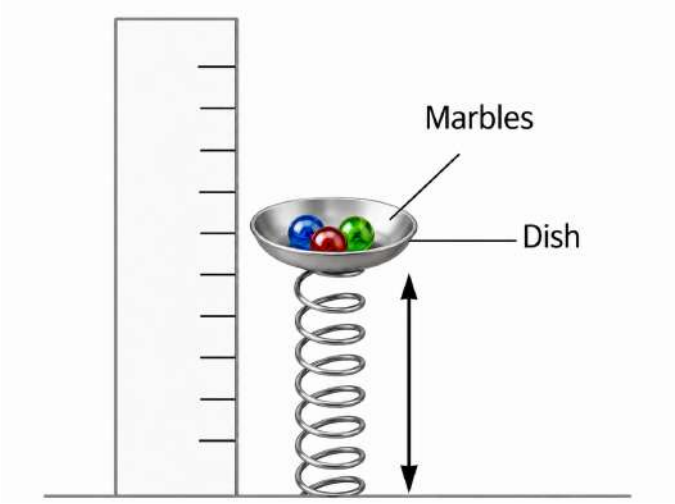
A community consists of different populations of **different species** living together in the same area.

Which of Pauline's statements are incorrect? (4.5 marks)

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

23. Daniel wanted to find out whether the number of marbles affected the length of a spring.



He placed three marbles on the dish and measured the length of the spring in centimetres. He repeated the experiment by adding more marbles to the dish and recorded the results in the table below.

Number of marbles	Length of spring (cm)
0	60
3	51
6	42
8	36
10	?

What was the length (cm) of the spring when 10 marbles were place on the dish? (4.5 marks)

1. 32
2. 30
3. 28
4. 26

Copyright © 2026 ASMOPSS. All Rights Reserved.

24. Students placed 200 g of soil samples P, Q, R and S into identical containers with the same number of drainage holes. They then poured 100 mL of water onto each soil sample and measured the volume of water that drained within 10 minutes. The results are shown in the table below.

Soil sample	Characteristics of the soil	Volume of water drained within 10 minutes (mL)
P	Large soil particles, loose texture and dries quickly	82
Q	Very fine particles, sticky and forms clumps	18
R	Particles of different sizes, loose texture and remains moist without becoming waterlogged	48
S	Fairly fine particles, compact texture and slight waterlogging	30

The students want to grow water spinach in a soil bed. Water spinach grows well in soil that retains a suitable amount of moisture while allowing excess water to drain away so that the roots receive enough air. Based on the results, which soil sample should the students choose, and why? (4.5 marks)

1. Soil P, because water drains through it the fastest, so it retains the most water for the plant.

2. Soil Q, because it retains the most water, so the plant roots receive more air.

3. Soil R, because it retains a suitable amount of moisture and drains excess water well.

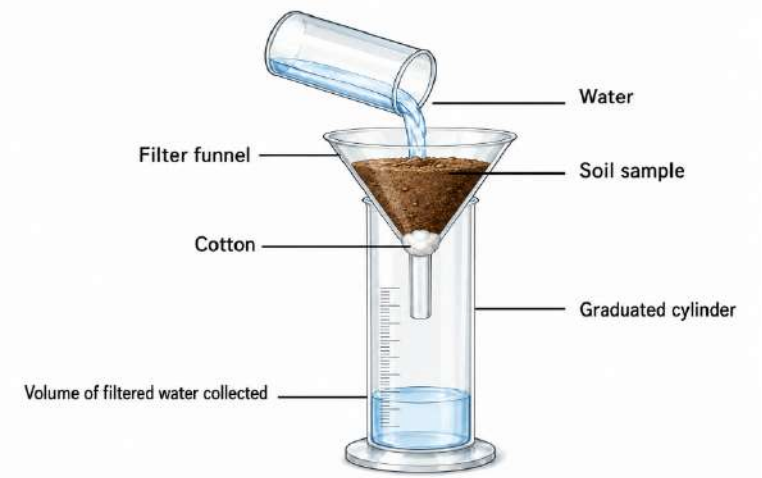
4. Soil S, because it has fine particles and is waterlogged, so it is suitable for all types of plants.

Copyright © 2026 ASMOPSS. All Rights Reserved.

25. Dada conducted an experiment to investigate whether water flows through four different soil samples at different rates.

Experimental Procedure:

1. Put a 50-gram sample of Soil A into a funnel with a cotton plug at the bottom.
2. Place the funnel containing Soil A on top of a graduated cylinder.
3. Pour 100 mL of water onto the soil sample and start the timer immediately.
4. After 10 minutes, read the volume of water that has flowed through the soil sample and collected in the graduated cylinder.
5. Record the results.
6. Repeat steps 1–5 using Soil samples B, C, and D respectively, keeping all other variables constant.



Experimental setup

Experimental Results:

Soil Sample	A	B	C	D
Volume of Collected Water (mL)	85	48	13	26

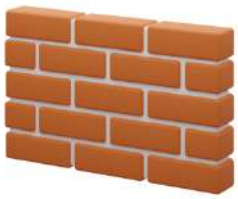
Based on the experimental results, which soil sample is the most suitable for growing a cactus? (4.5 marks)

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

26. Study the group of objects below.



Which of the following can be placed in the group above? (2.5 marks)

1. Nail
2. Tree
3. Cat
4. Whale






Copyright © 2026 ASMOPSS. All Rights Reserved.

27. A student measured the length of the shadow cast by a flagpole on a clear day. The results are recorded in the table below.

Time	Length of the shadow (m)
8.00 a.m.	5
12.00 noon	1
4.00 p.m.	4

Which of the following best explains these observations? (3.5 marks)

1. At 12.00 noon, the Sun appeared lowest in the sky and closest to the horizon.
2. At 12.00 noon, the Sun appeared highest in the sky compared with the other times measured.
3. The height of the flagpole decreased at 12:00 noon.
4. The shadow of an object remains the same length throughout the day.

Copyright © 2026 ASMOPSS. All Rights Reserved.

28. Mr. Thompson counted the number of trees in his nursery and recorded the data in the table below.

Types of trees	Number of trees
Angsana tree	6
Orange tree	4
Apple tree	5
Papaya tree	8
Mango tree	10
Others	5

Which of the following statements about the trees in his nursery are true?
(3.5 marks)

A : More than half total number of trees produced edible fruits.

B : There were five types of trees in the plant nursery.

C : There were 38 trees in total.

D : There were more mango trees than any other type of tree.

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

Copyright © 2026 ASMOPSS. All Rights Reserved.

29. A student produced sounds using different objects and recorded the observations in the table below.

Object	How the sound was produced	Observation
Drum	Struck with a drumstick	The drum skin vibrated.
Guitar	The strings were plucked.	The guitar strings vibrated.
Bell	Struck with a mallet	The bell vibrated.
Whistle	Air was blown into it.	The air column inside the whistle vibrated.

Which conclusion is best supported by the results of the experiment? (3.5 marks)

1. Sound is produced only when an object is touched by hand.
2. Sound is produced when a sound source vibrates.
3. Only objects made of metal can produce sound.
4. Sound is produced only when an object is struck or tapped.

Copyright © 2026 ASMOPSS. All Rights Reserved.

30. Zoe wanted to find out how the type of soil affected the growth of mango tree seedlings. She recorded her findings in the table below.

Pot	Number of mango tree seedlings	Type of soil	Size of pot
A	3	garden	small
B	4	garden	medium
C	4	sandy	medium
D	3	sandy	medium
E	4	clayey	medium
F	3	clayey	big

Which three pots should she select to conduct a fair test? (4.5 marks)

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

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

Please check your answers before submitting the answer sheet.

Copyright © 2026 ASMOPSS. All Rights Reserved.

Answers Keys : Science Primary - Grade 3

No.	Answers	No.	Answers
1.	3	21.	2
2.	2	22.	3
3.	2	23.	2
4.	3	24.	3
5.	4	25.	1
6.	1	26.	1
7.	2	27.	2
8.	1	28.	3
9.	3	29.	2
10.	3	30.	4
11.	4		
12.	1		
13.	3		
14.	3		
15.	1		
16.	4		
17.	2		
18.	3		
19.	1		
20.	3		

Copyright © 2026 ASMOPSS. All Rights Reserved.