



PRACTICE QUESTION PAPER • ORIGINAL QUESTIONS IN THE STYLE OF CAMBRIDGE

Science

Primary - Stage 3

Paper 2

Time: 45 minutes

Candidate name

Class

Date

You must answer on the question paper.

You will need: pencil, pen, ruler.

INSTRUCTIONS

- Answer **all** questions.
- Write your answers in the spaces provided.
- Use a pencil for drawings. Use a pen or pencil for writing.
- Read each question carefully before you answer.

INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [].

For examiner use

Total / 50

- 1 (a) Give **two** jobs of the human skeleton. [2]

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- (b) Which part of the skeleton protects the heart and lungs? [1]

Answer

- (c) Muscles are joined to bones. What do muscles do when they get shorter? [1]

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- 2 (a) The sentences describe the life cycle of a flowering plant. [2]
Write the numbers **2, 3** and **4** in the boxes to show the correct order.
The first one has been done for you.

- ☐ A new plant grows from the seed.
- ☒ **1** Pollen is carried from one flower to another flower.
- ☐ The seed is carried away from the parent plant.
- ☐ A seed forms inside the flower.

- (b) Give **one** way that seeds can be carried away from the parent plant. [1]

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- (c) A sycamore seed has a "wing". How does the wing help the seed? [1]

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- (d) Why is it good for a plant when its seeds land far from the parent plant? [1]

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- 3 (a) Sam sorts four animals into two groups. [2]
Tick **one** box in each row to show if the animal has a backbone or has no backbone.

Animal	Has a backbone	Has no backbone
goldfish	☐	☐
butterfly	☐	☐
horse	☐	☐
snail	☐	☐

- (b) What is the name for animals that have a backbone? [1]

Answer

- (c) Which animal in the table is an insect? [1]

Answer

- 4 Priya wants to find out if the amount of light changes how tall bean plants grow.
She grows four identical bean plants for two weeks. Each plant gets a different number of hours of light each day.
She measures the height of each plant at the end. The table shows her results.

Plant	Hours of light each day	Height after two weeks (cm)
A	0	4
B	4	9
C	8	15
D	12	22

- (a) What is the **one** thing Priya changes in her investigation? [1]

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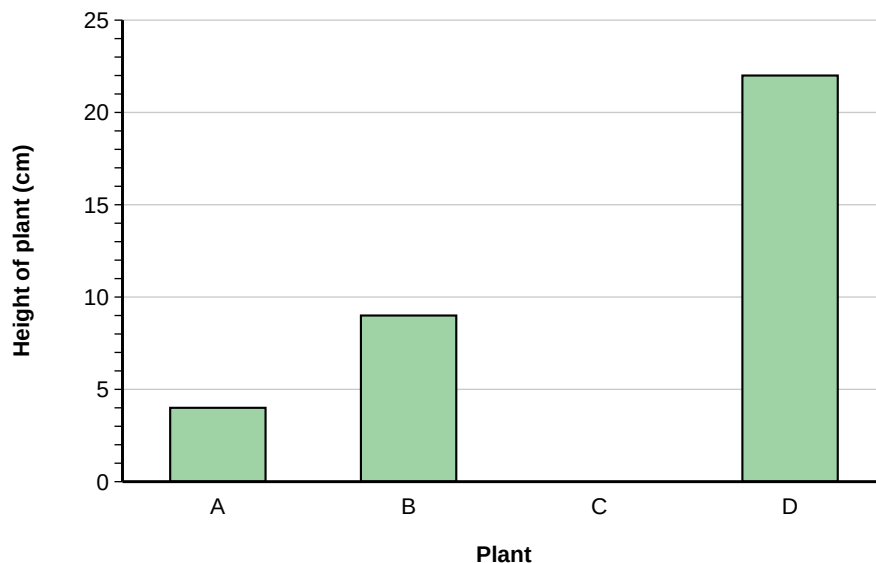
- (b) What does Priya measure? [1]

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- (c) Give **one** thing Priya must keep the same to make it a fair test. [1]

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- (d) Complete the bar chart.
Draw the bar for plant C. [1]



- (e) What do Priya's results show? [1]

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- (f) Priya grows another plant with 6 hours of light each day.
Circle the height this plant is most likely to be after two weeks. [1]

5 cm 12 cm 18 cm 25 cm

5 The list shows four materials.

glass steel rubber wool

- (a) Which material from the list is transparent? [1]

Answer

- (b) Which material from the list is magnetic? [1]

Answer

- (c) Rubber is used to make the soles of shoes.
Give **one** property of rubber that makes it a good material for shoe soles. [1]

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- (d) Wool is used to make winter jumpers. Why is wool a good material for this? [1]

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- (e) Explain why glass is **not** a good material for shoe soles. [1]

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6

Jamal pours 100 cm³ of water onto 100 g of each soil.
He measures how much water drains through each soil in one minute. The table shows his results.

Soil	Water that drained through in one minute (cm ³)
sand	85
garden soil	50
clay	15

- (a) Which soil lets the most water drain through? [1]

Answer

- (b) Jamal wants a soil that holds the most water for plant roots.
Which soil should he choose? [1]

Answer

- (c) Give **one** thing, other than pieces of rock, that is found in soil. [1]

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- (d) Give **one** thing Jamal must keep the same to make it a fair test. [1]

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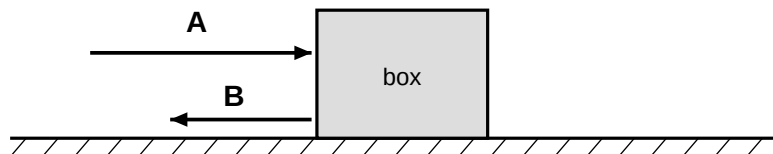
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- (e) Granite is a hard rock.
Give **one** reason why granite is a good material for building a house. [1]

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- 7 Mia pushes a box along the floor.
The diagram shows two forces, **A** and **B**.



- (a) Is force A a push or a pull? [1]

Answer

- (b) Name force B. [1]

Answer

- (c) Mia pushes the box over a rough carpet instead. [1]
What happens to force B?

Answer

- (d) Mia wants the box to move faster. [1]
What must she do to force A?

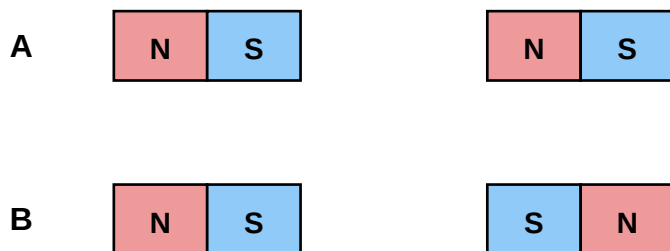
Answer

- (e) Give **one** way that friction is useful. [1]

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- 8 The diagrams show two pairs of bar magnets.
In each diagram the magnets are held close together.



- (a) What do the magnets in diagram A do? [1]
Tick **one** box.

☐ pull together

☐ push apart

- (b) What do the magnets in diagram B do? [1]

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- (c) Circle the **two** objects that a magnet will pick up. [1]

wooden spoon iron nail plastic ruler steel paperclip

- (d) Name **one** way that people use magnets at home. [1]

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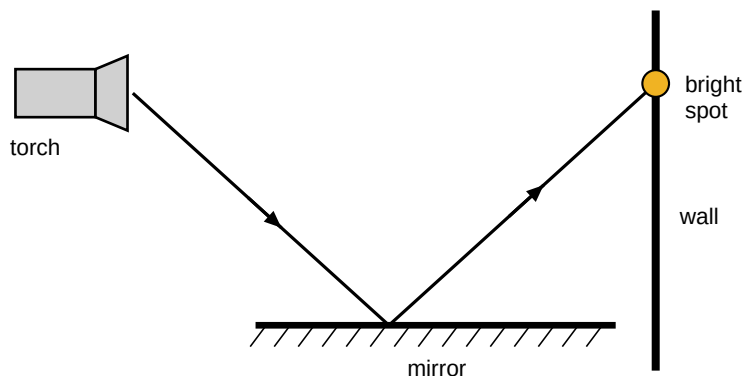
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- (e) Jamal says that all metals are magnetic. [1]
Give **one** metal that is **not** magnetic.

Answer

9

Aisha shines a torch at a mirror.
The light bounces off the mirror onto a wall and makes a bright spot.



- (a) What is the name for light bouncing off a surface? [1]

Answer

- (b) Name **one** material that is a good reflector of light. [1]

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- (c) Aisha can see a book on a table. The book does not make its own light. Explain how Aisha sees the book. [1]

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- (d) Cyclists wear reflective strips on their clothes at night. Why? [1]

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- (a) Name the star at the centre of our solar system. [1]

Answer

- (b) Why can we see the Moon in the night sky? [1]

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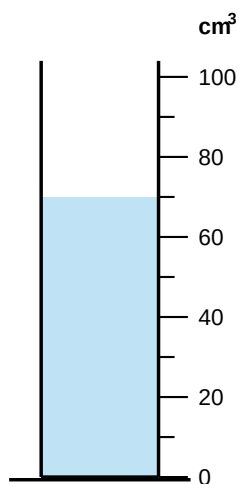
- (c) How long does the Earth take to travel once around the Sun? [1]

Answer

- (d) Name **one** planet in our solar system other than Earth. [1]

Answer

- 11** Samira uses a measuring cylinder to measure water.
The diagram shows the water in the measuring cylinder.



- (a) What is the volume of water in the measuring cylinder? [1]

Answer cm^3

- (b) Samira pours in another 20 cm^3 of water. [1]
What is the new volume of water?

Answer cm^3

- (c) Samira reads the scale with her eyes level with the surface of the water. [1]
Why does she do this?

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