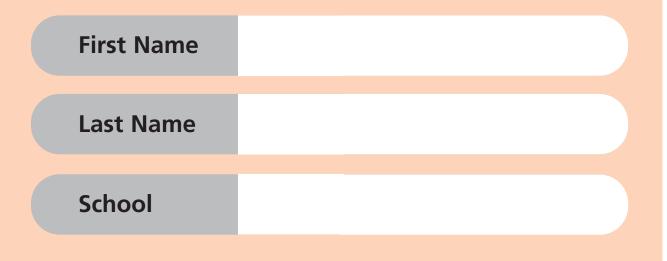
| | | PAGE | MARKS |
|-------------------|---|------|-------|
| | | 5 | |
| SCIENCE | | 7 | |
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| | | 11 | |
| | | 13 | |
| KEY STAGE 2 2003 | | 15 | |
| | | 17 | |
| LEVELS | | 19 | |
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| | | | |





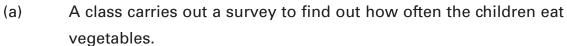




INSTRUCTIONS

Read this carefully.

| Answers | |
|----------|---|
| N | This shows where you will need to put your answer. |
| | For some questions you may need to draw an answer instead of writing one. |
| | |
| | |
| | You have 45 minutes for this test. |



Tally chart to show how often the children eat vegetables

How often? Number of children more than once a day HTT once a day HH (| ()once a week HH ШТ less than once a week |||1 never

Use the tally chart. How many children eat vegetables more than once a day?

.....

.....

1 mark

1a

(b)

Eleven children gave the same answer as each other.

Use the tally chart to find out what answer these eleven children gave.

1 mark

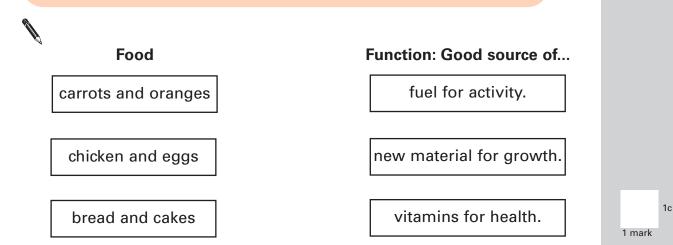
1b

1

4

(c) In a balanced diet, each food group has a special function in the body. Each food below is a good source of something the body needs.

Draw **THREE** lines below to match each food to its special function.



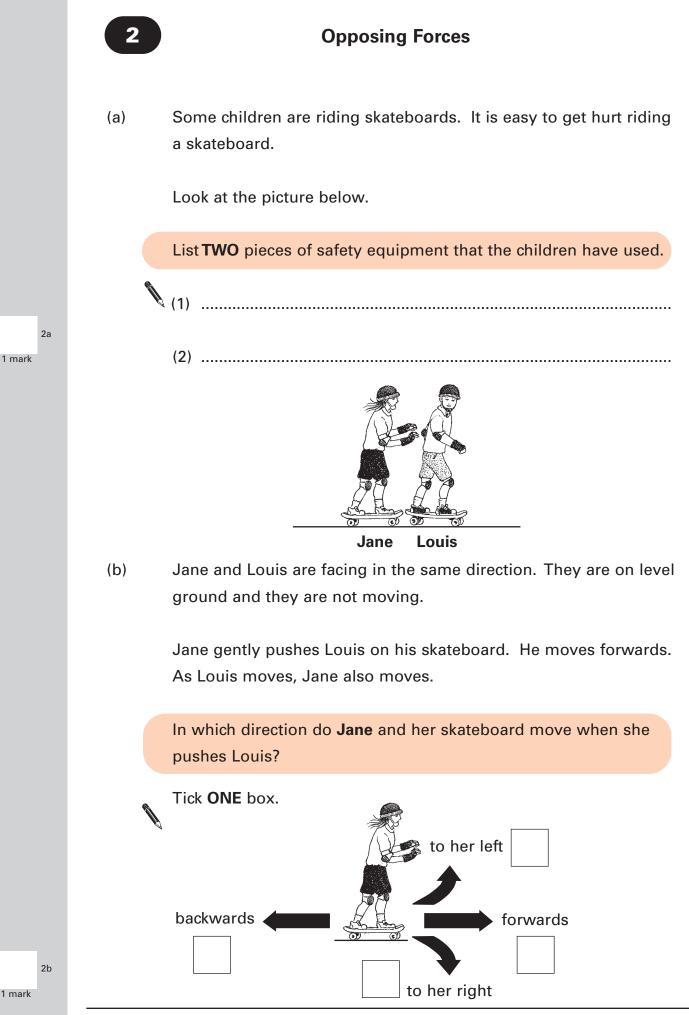
(d) Nasreen makes a poster to show how to stay healthy. Only some of the ideas on her poster are good.

Tick **TWO** boxes to show the best ideas on the poster below.

To stay healthy you should:

- eat lots of fried food.
- eat different kinds of food.
- smoke every day.
- exercise often.

1d 1 mark



- (c) Jane and Louis go back to the same starting places. Jane gives Louisa bigger push on his skateboard. They both move faster this time.
 - (i) What happens to the distance that Louis travels on this second push compared to the first push?
 (ii) What happens to the distance that Jane travels on the second push compared to the first push?
- (d) Dave goes over a jump on his skateboard. When he jumps he stays in the air for a short time.



What force makes him return to the ground?

2d

2ci

2cii

1 mark

1 mark

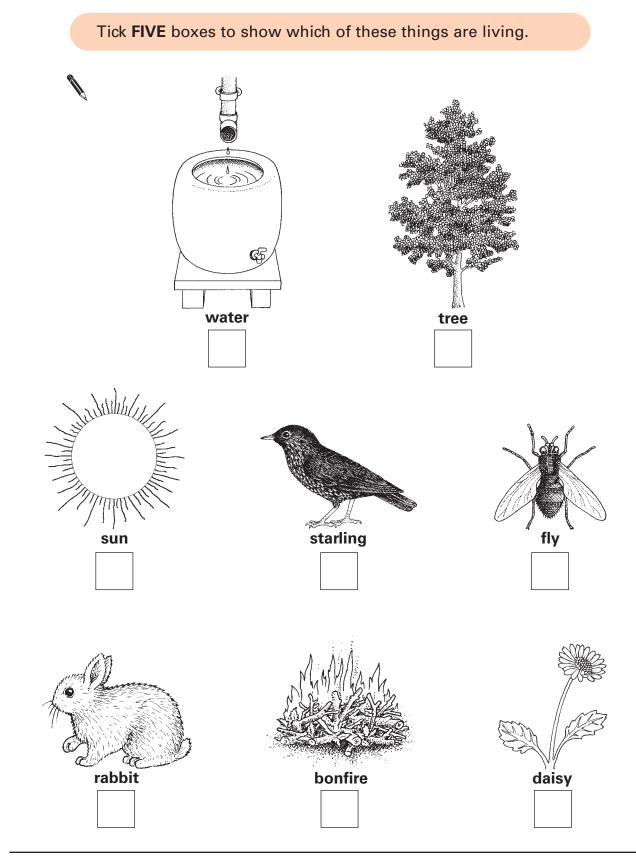
1 mark

7

.....

(a) Kami sees all of the things below while he is working in his vegetable patch.

3

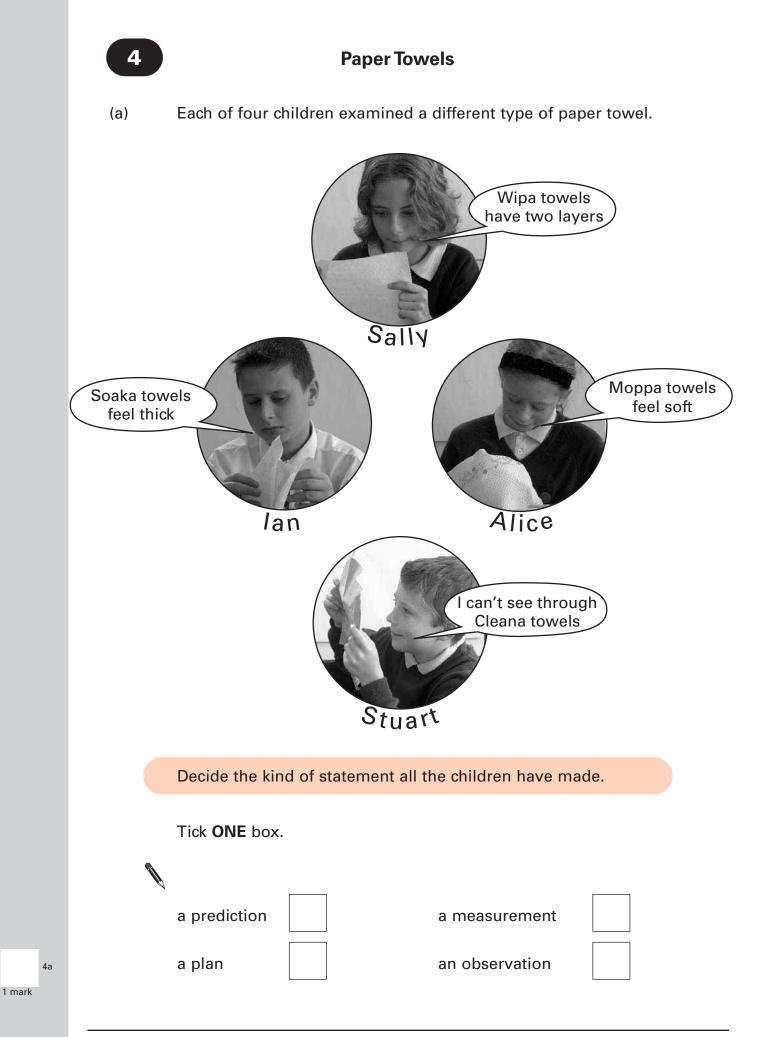


1 mark

3ai

3aii

| (b) | | Kami grows cabbages in his vegetable patch. Some of the cabbages are eaten by snails . Some of the snails are eaten by birds called thrushes . | |
|-----|----------|---|----------------|
| | | Write a food chain to show this information. | 3bi |
| | | Use arrows in your food chain. | 1 mark |
| | Ŵ | | 3bii 1 mark |
| (c) | | A cabbage has many leaves. | |
| | | Tick ONE box to show why leaves are important to a cabbage plant. | |
| | Ø | The leaves | |
| | | attract insects.anchor the plant in the ground. | |
| | | collect pollen. produce new material for growth. | 3c 1 mark |
| (d) | | Kami cuts a cabbage in half. The leaves on the outside of the cabbage are dark. The leaves on the inside are a pale yellow colour. | |
| | | Which statement best explains why the leaves on the inside are paler? | |
| | | Tick ONE box. | |
| | N | The leaves on the inside of the cabbage get | |
| | | less light. | |
| | | more minerals. more air. | 3d 1 mark |



 (b) Robert and Lauren dropped
 water onto the four towels until they would hold no more water.



They recorded their results in a table.

| Type of paper towel | Amount of water soaked up (cm ³) |
|---------------------|--|
| Wipa | 12 |
| Soaka | 18 |
| Морра | 9 |
| Cleana | 15 |

They are trying to find out something about the towels.

What question were the children investigating?

(c)

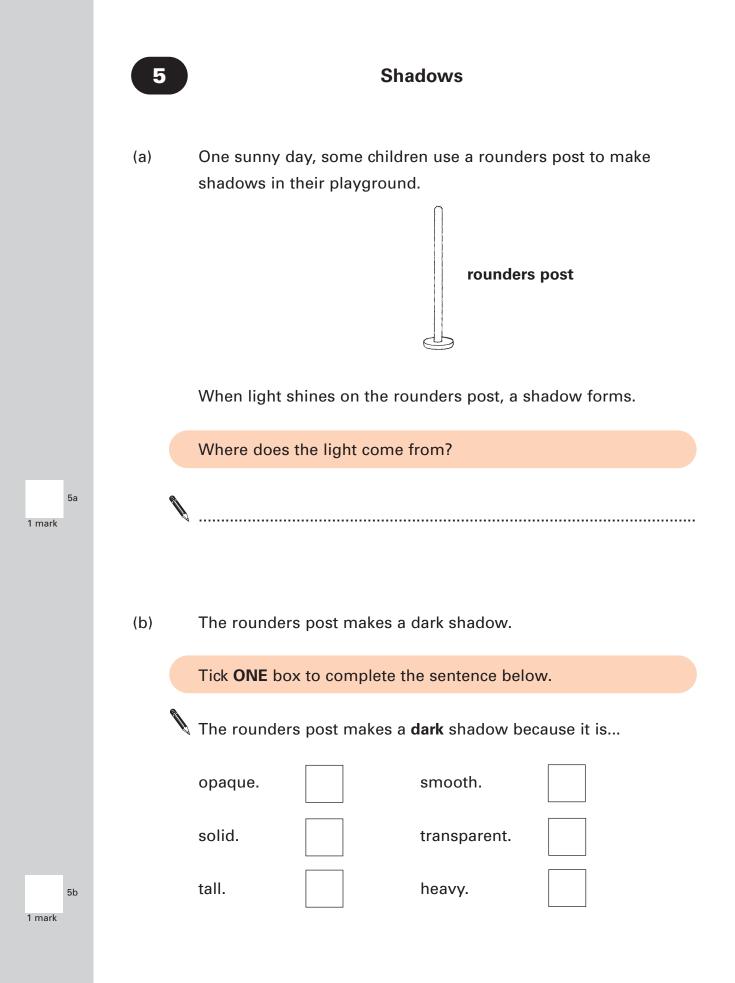
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What is the **ONE** factor they **changed** as they carried out their investigation?

4c 1 mark

4b



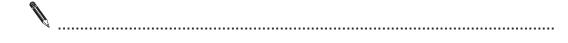
(c) The children draw round the shadow of the rounders post every half hour from 9:30 until 12 noon.

They measure the length of each shadow and record their results in this table:

| Time (am) | Length of shadow (cm) |
|-----------|-----------------------|
| 9:30 | 146 |
| 10:00 | 130 |
| 10:30 | 116 |
| 11:00 | 109 |
| 11:30 | 106 |
| 12:00 | 103 |

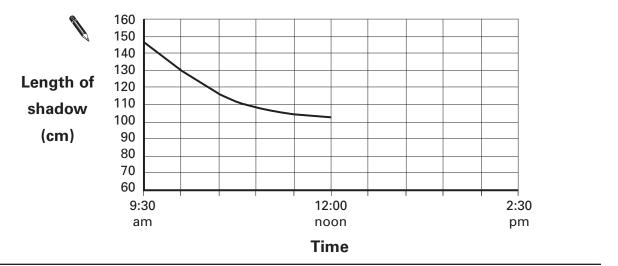


What happened to the length of the shadow during the morning?



(d) The children make a line graph to show the results from the morning.

Continue the line on the graph to show how the length of the shadow would change between 12 noon and 2:30 pm.



5c

1 mark

Germinating Seeds



These children have recorded their observations about lettuce seeds germinating at three temperatures.

They planted the same number of seeds at each temperature.

| Temperature | Total number of lettuce seeds germinated | | | | | |
|-------------|--|-------|-------|-------|-------|-------|
| (°C) | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 |
| 5 | 0 | 0 | | 0 | 1 | 1 |
| 15 | 0 | 0 | 0 | 1 | 5 | 9 |
| 25 | 0 | 2 | 8 | 13 | 17 | 19 |

Complete the table to show how many seeds germinated at 5°C on Day 3.

(b) The children were trying to find out something about seeds.

What question were the children investigating?

8

6a

1 mark

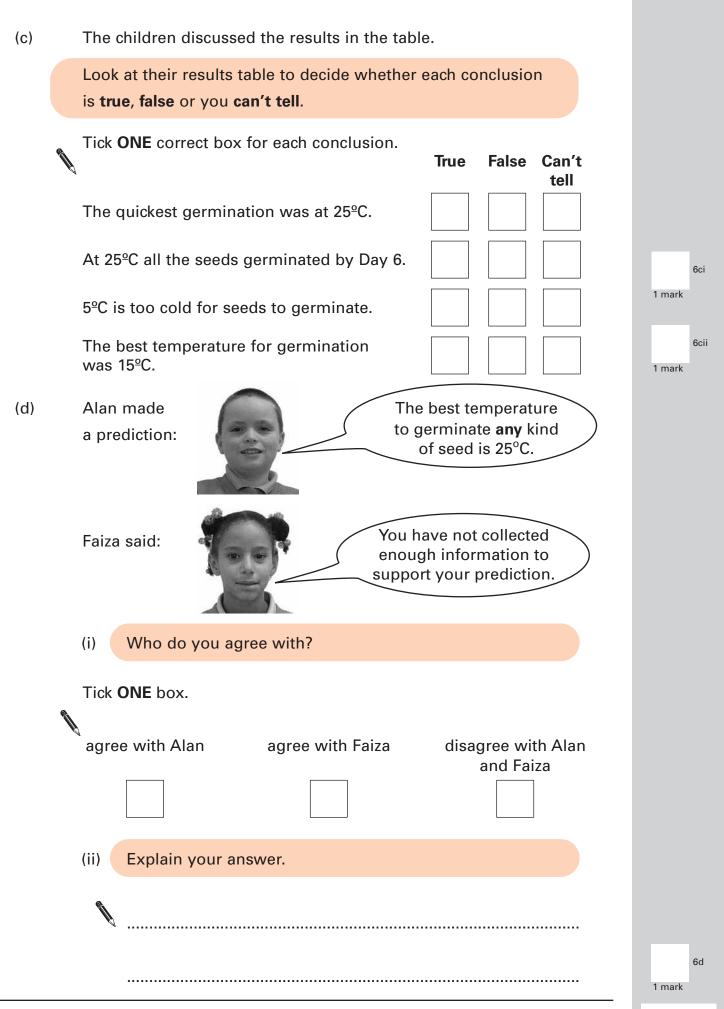
(a)

6

1 mark

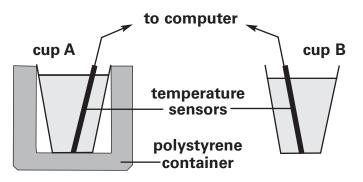
6b

.....

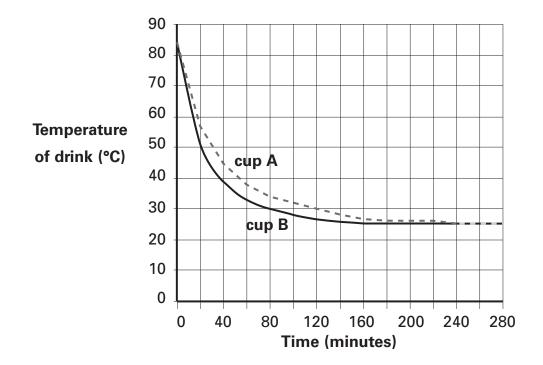


 Rashida wants to test if a polystyrene container keeps her drink hot for longer. She makes her drink from boiled water.

She measures the temperature in two plastic cups (A and B) every ten minutes with sensors joined to a computer.



The graph below shows her results.



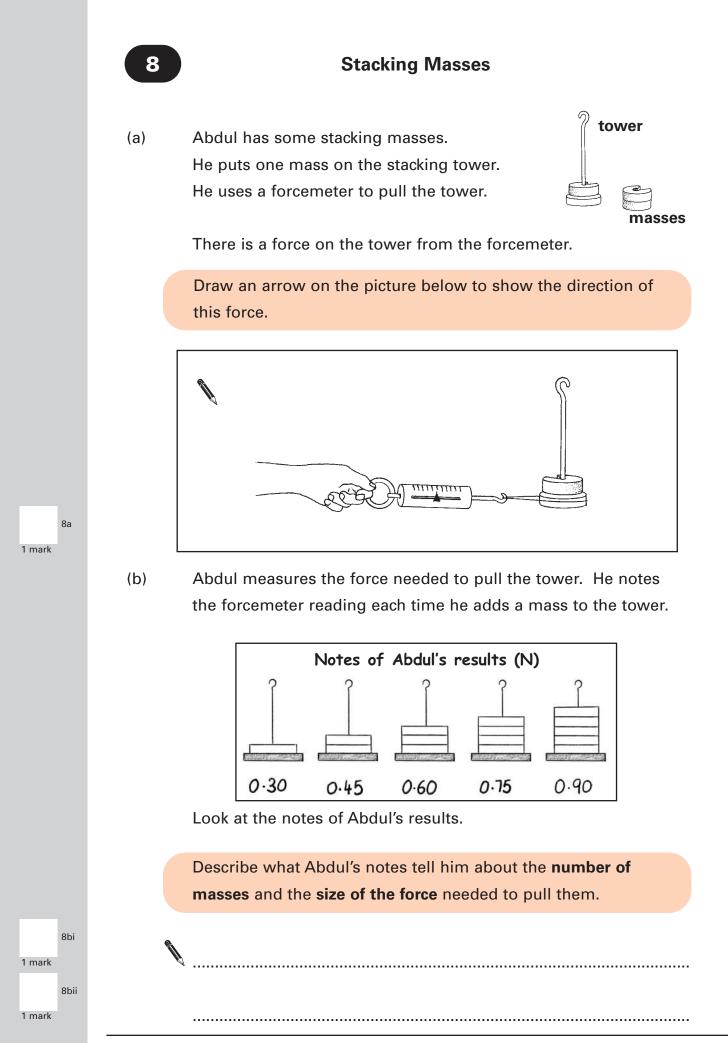
How does the graph tell you that the drink in cup B cooled more quickly than the drink in cup A in the first 40 minutes?

7

1 mark

.....

| (b) | | Use the graph. | |
|-----|---|--|--------------|
| | | Estimate the temperature of the room. | |
| | N | °C | 7b 1 mark |
| (c) | | Which of the following best describes the polystyrene around cup A? | |
| | R | Tick ONE box. | |
| | N | thermal insulator thermal conductor | |
| | | warming material cooling material | 7c 1 mark |
| (d) | | Using a polystyrene container or cup is a good way for Rashida to help stop heat leaving her drink. | |
| | | Describe another way Rashida could help stop heat leaving her drink to keep it hot for longer. | |
| | N | | 7d 1 mark |



| Number of masses | Forcemeter reading (N) |
|------------------|------------------------|
| 1 | 0.90 |
| 2 | 0.75 |
| 3 | 0.60 |
| 4 | 0.45 |
| 5 | 0.30 |

(c) Abdul puts his results into this table, but he makes a mistake.

What is the mistake in Abdul's table?

•

 (d) Abdul notices his mistake. He corrects his table.
 Then he says: 'I wonder if I made any mistakes when I did my test?'

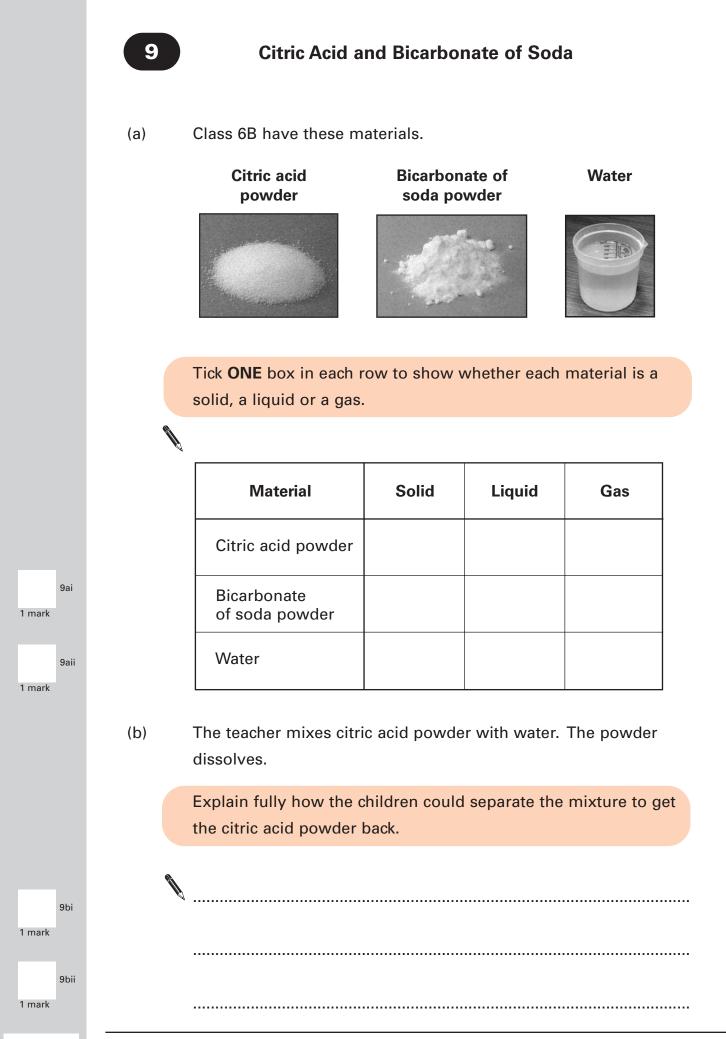
What should he do to check if he made any mistakes in his test?

N_____

1 mark

8d

8c



Total

END OF TEST

Please check your answers

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QCA key stage 2 team, 83 Piccadilly, London W1J 8QA

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