



**Cambridge
Primary
Checkpoint**

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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SCIENCE

0846/01

Paper 1

October 2012

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen
Pencil
Ruler

Calculator



READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

The total number of marks for this paper is 50.

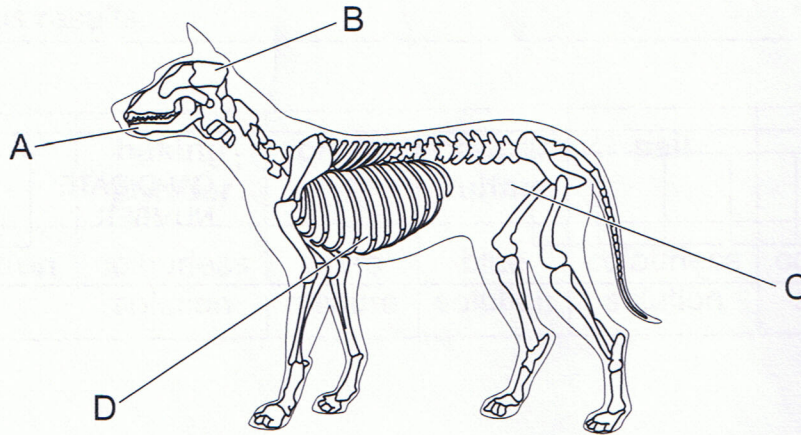
For Examiner's Use	
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Total	

This document consists of **20** printed pages.





1 The picture shows the inside of a dog.
A dog has different organs.



(a) Draw a line to connect the **letter** to the position of the **organ**.

letter

organ

A

lung

B

kidney

C

brain

D

tongue

[2]

Each organ in the dog has a job to do.

Here are some organs.

brain

heart

kidney

lung

stomach

(b) Which organ pumps blood around the circulatory system?

.....

[1]

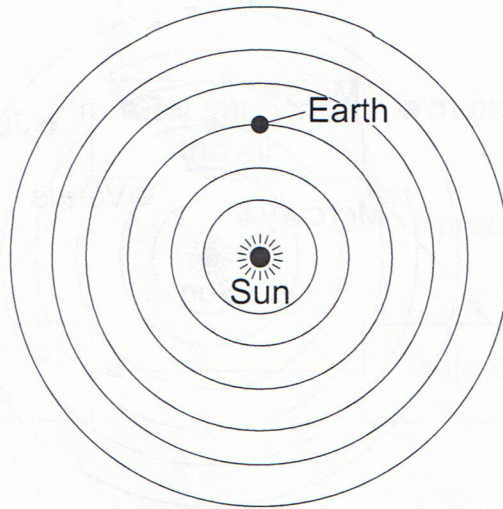
(c) Which organ produces acid and digests food?

.....

[1]



2 (a) The Earth orbits the Sun.



How long does the Earth take to orbit the Sun?

Tick (✓) **one** box.

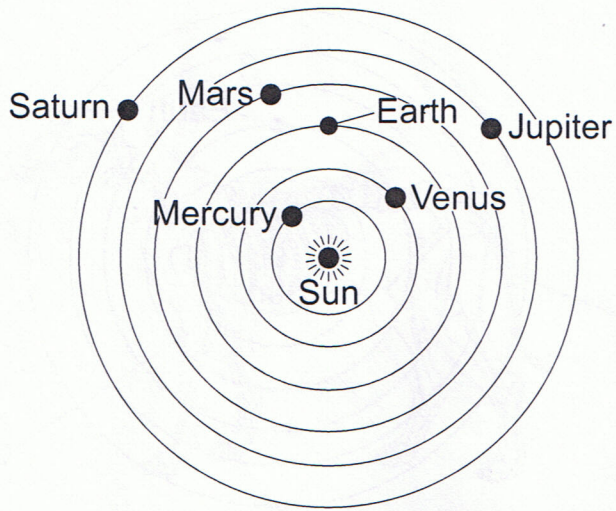
1 hour	<input type="checkbox"/>
1 day	<input type="checkbox"/>
1 week	<input type="checkbox"/>
1 month	<input type="checkbox"/>
1 year	<input type="checkbox"/>

[1]





Other planets also orbit the Sun.



(b) Name **one** planet that takes less time to orbit the Sun.

..... [1]

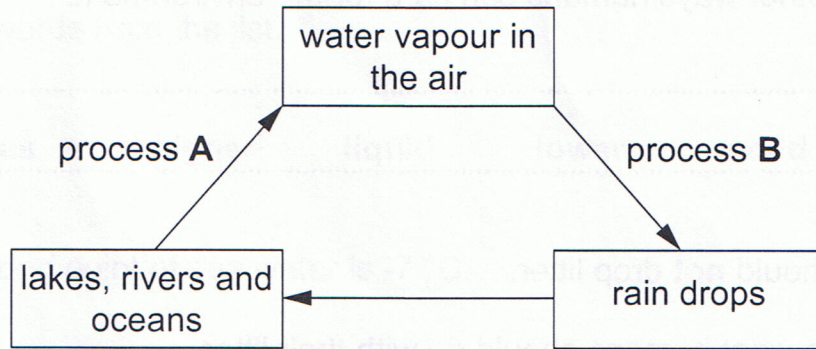
(c) Suggest why this planet takes less time to orbit the Sun.

..... [1]



3 On a very humid day the air contains lots of water vapour.

Here is a diagram showing how some of the water vapour gets into the air.



Draw a line between the **process** and the **name** of the process.

process

name

A

boiling

condensation

B

evaporation

melting

[2]





4 (a) Humans care for the environment.

One way they do this is by **not** dropping litter.

Give **two** other ways humans can care for the environment.

1

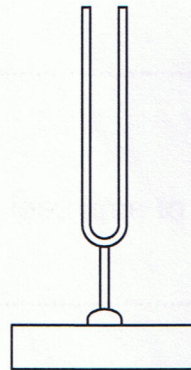
2 [2]

(b) Humans should **not** drop litter.

Write down what humans should do with their litter.

..... [1]

5 Gianni has a tuning fork.



(a) When he hits the tuning fork, he hears a sound.
What is happening to the fork?

..... [1]

(b) He hits the fork and puts it in a cupboard.
What will happen to the sound he hears?

..... [1]

(c) Now he hits a larger tuning fork, with longer prongs.
What does he notice about the sound?

..... [1]



6 Sea water contains salts dissolved in water.

(a) Complete the sentences about sea water.

Choose words from the list.

gas higher liquid lower solid

The freezing point of sea water is $-7\text{ }^{\circ}\text{C}$.

The freezing point of pure water is than the freezing point of sea water.

When sea water freezes it changes from a to a

.....

The boiling point of sea water is $106\text{ }^{\circ}\text{C}$.

The boiling point of pure water is than the boiling point of sea water.

When sea water boils it changes from a to a

.....

[4]

(b) Feng leaves a dish of salt water in the hot sun.

He returns after five hours to see that there is a white solid left in the dish.

What process has happened to the water during the five hours?

.....

[1]

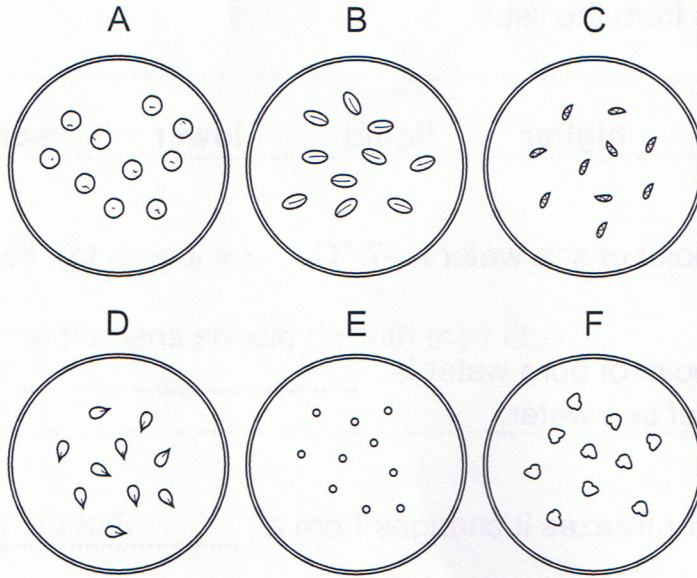
DO NOT WRITE IN THIS MARGIN





7 Maja and Ivan investigate seeds growing.

Here are the six different **types** of seed they use.



(a) Maja and Ivan give the seeds 8cm³ of water.

Circle the equipment they use.

beaker

cup

measuring cylinder

test tube

[1]

(b) Maja and Ivan want to make their investigation fair.

They give all the seeds the **same** amount of water.

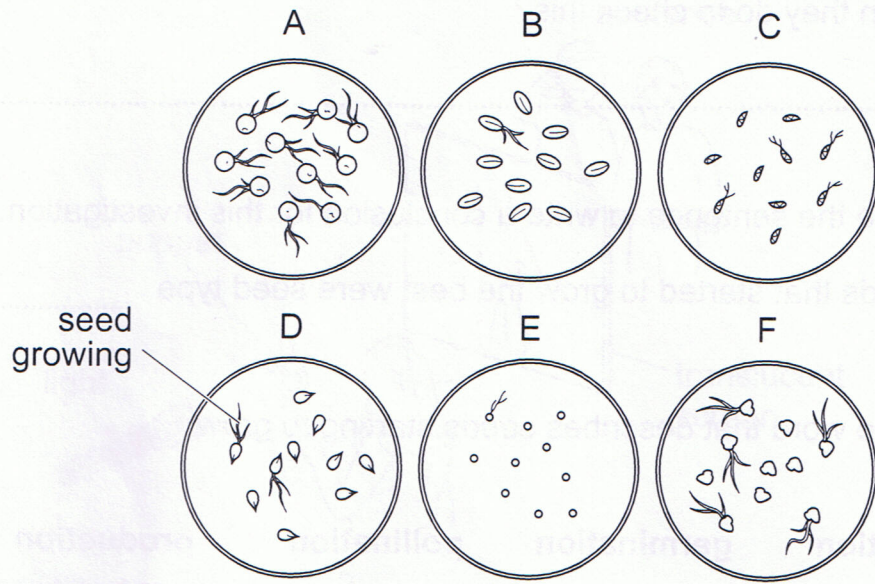
Write **one other** fair test they can make when growing the seeds.

.....

[1]

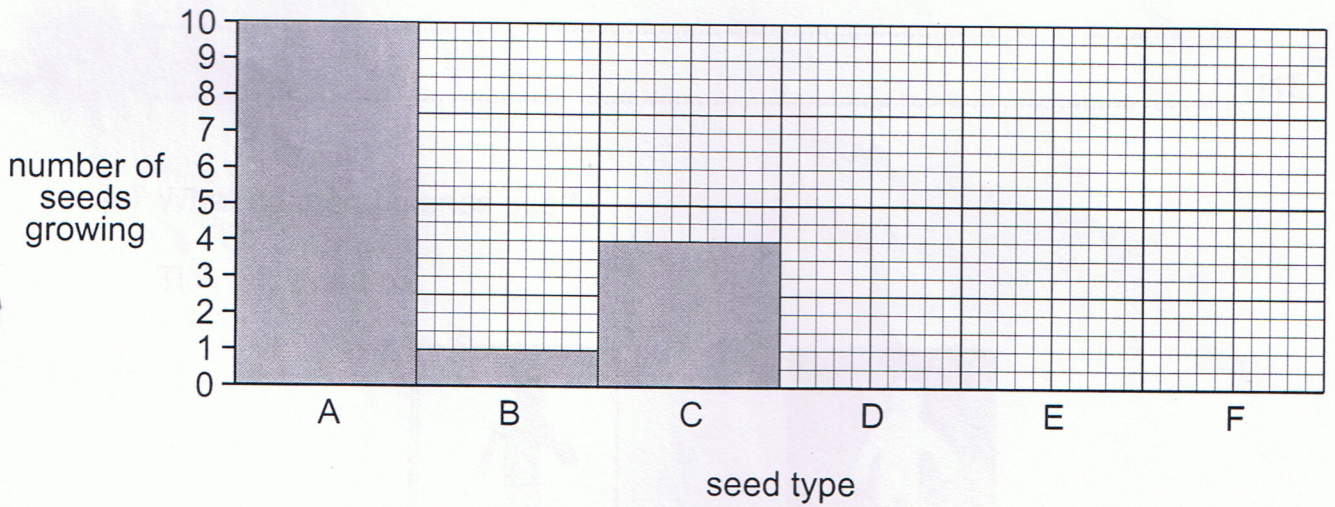


Here are their results.



(c) Maja and Ivan start to draw a bar chart.

Complete their bar chart.



[1]





(d) Maja and Ivan are not sure their results are correct.

What can they do to check this?

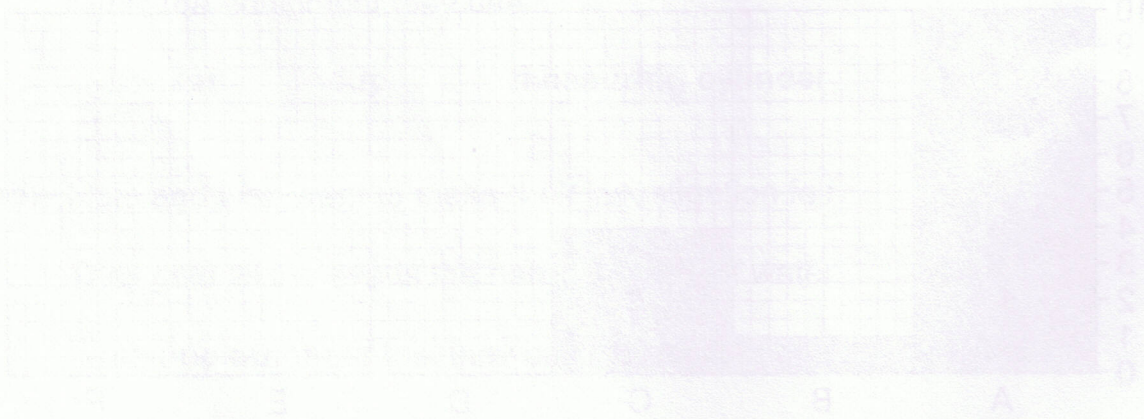
..... [1]

(e) Complete the sentence to write a conclusion for this investigation.

The seeds that started to grow the best were seed type [1]

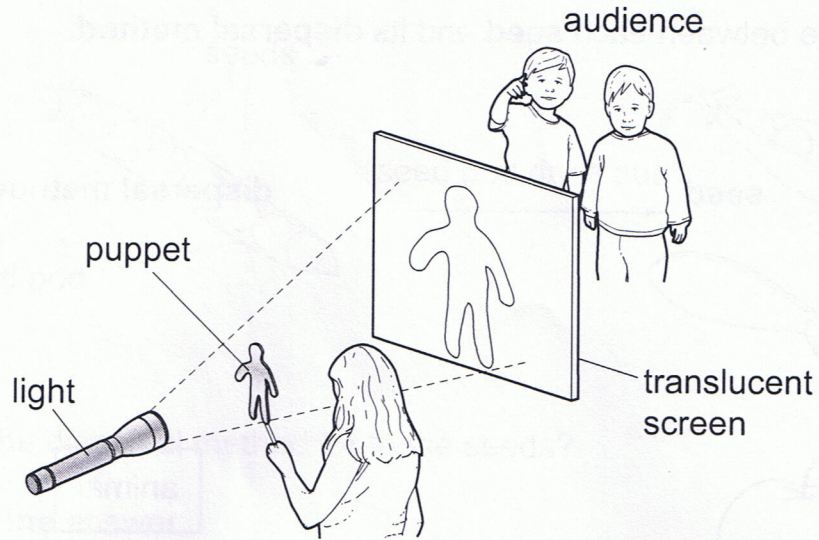
(f) Circle the word that describes seeds starting to grow.

fertilisation germination pollination production [1]





8 Here is a diagram of a puppet show.



(a) Complete this sentence.

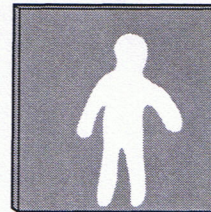
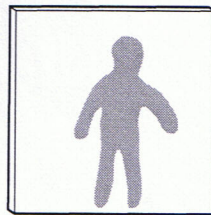
The puppet makes an image called a on the screen. [1]

(b) What must the girl do to the puppet to make this image smaller?

.....
..... [1]

(c) What do the audience see?

Tick (✓) **one** box.



[1]

(d) What would the audience see if the screen were opaque?

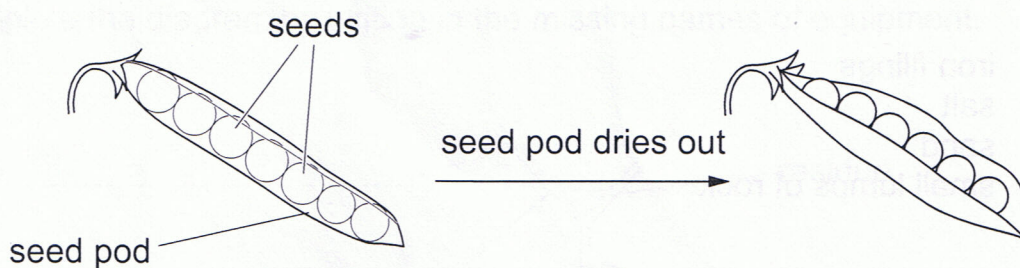
..... [1]

DO NOT WRITE IN THIS MARGIN





Here are some seeds in a pod.



(b) What is the dispersal method for these seeds?

Tick (✓) **one** answer.

animal dispersal	<input type="checkbox"/>
rain dispersal	<input type="checkbox"/>
explosive dispersal	<input type="checkbox"/>
vegetable dispersal	<input type="checkbox"/>

[1]

(c) Complete the sentence to show how this method works.

After the seed pod dries out, the pod open. [1]



DO NOT WRITE IN THIS MARGIN



10 Lee is given a mixture to separate.

The mixture contains:

- iron filings
- salt
- sand
- small lumps of rock



(a) He removes the small lumps of rock by sieving.

Why does he use a sieve?

..... [1]

(b) Next he uses a magnet.

Which substance is attracted to the magnet?

..... [1]

(c) Lee uses three more stages to complete the separation.

Stage A – Evaporation

Stage B – Filtration

Stage C – Mix and stir with water

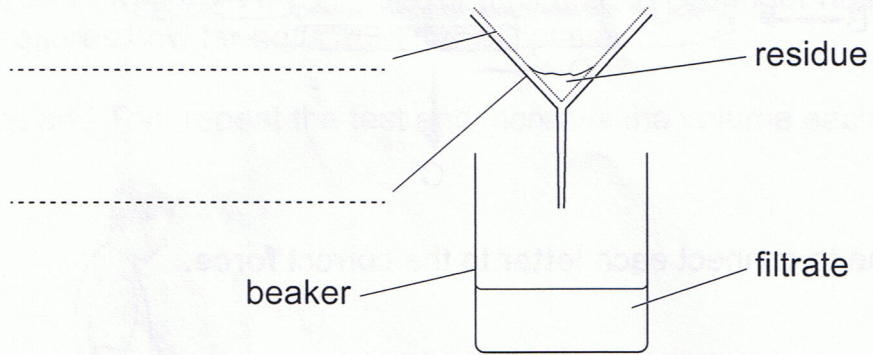
Put these stages in the correct order.

First stage Second stage Third stage [1]



(d) Here is a diagram of the filtration stage.

Complete the diagram by writing in the missing names of equipment.

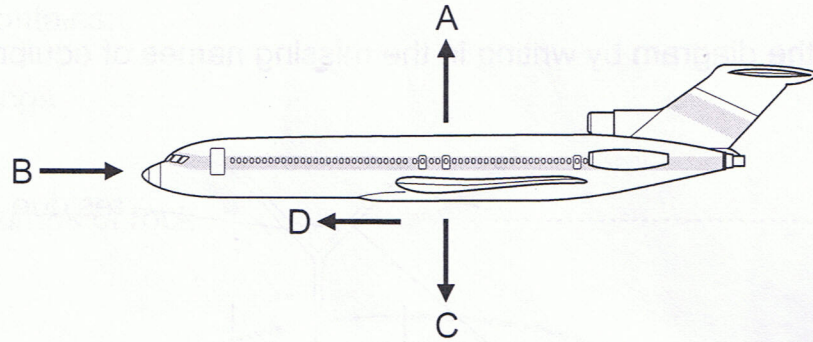


[2]





11 The picture shows an aeroplane flying.



(a) Draw a line to connect each letter to the correct force.

letter	force
A	air resistance
B	moving aeroplane upwards
C	moving aeroplane forwards
D	gravity

[2]

(b) The force moving the aeroplane forward is increased more than the air resistance.

What happens to the aeroplane?

Tick (✓) **one** box.

moves up in the air	<input type="checkbox"/>
moves down in the air	<input type="checkbox"/>
speeds up	<input type="checkbox"/>
slows down	<input type="checkbox"/>
stops moving	<input type="checkbox"/>

[1]

(c) Write down **one** way air resistance can be reduced.

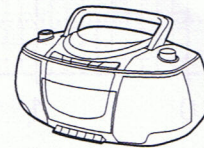
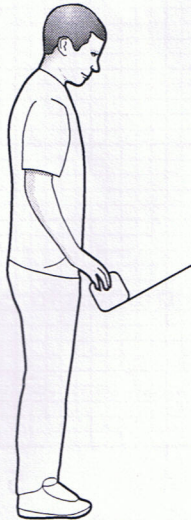
.....

[1]



12 Jessica and Tom investigate sound from a CD player.

- The volume control on the CD player goes from 0 to 6. Jessica sets the volume control on 1. Jessica sets the volume control on 1.
- Tom walks away from the CD player until he can no longer hear the music. He measures how far he is from the CD player.
- Jessica and Tom repeat the test and increase the volume each time.



Here are their results.

volume control of CD player	distance sound heard in m
1	3
2	7
3	10
4	18
5	17
6	20

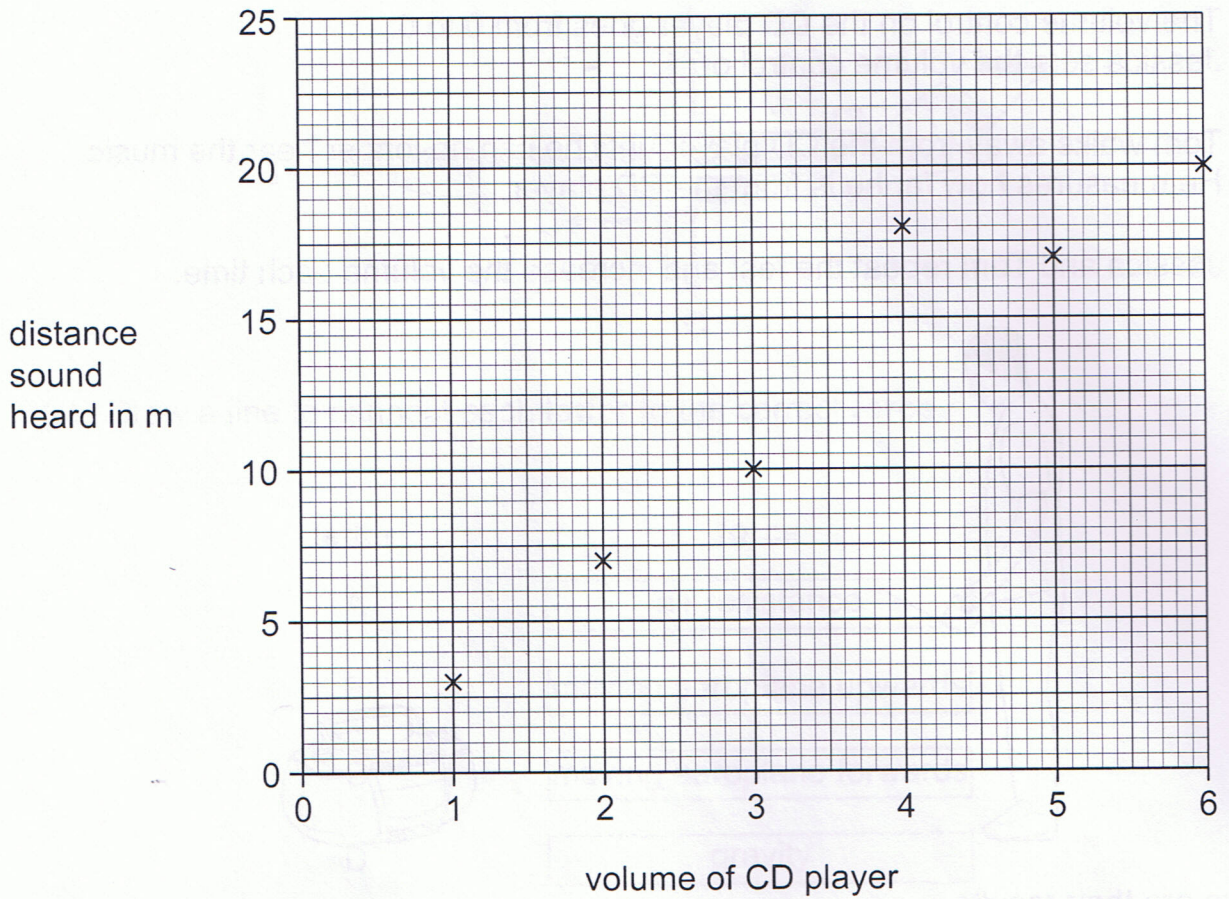
(a) Write down the factor they are changing.

..... [1]





Jessica and Tom plotted their **results**.



(b) Which of their results does not fit the pattern?

..... [1]

(c) This was their conclusion. Fill in the missing word.

The higher the volume of the CD player, the
the distance it can be heard. [1]



(d) Cheetan repeats the experiment four more times.

Each time he uses a different solid.

Here are his results.

solid	baking powder	chalk	copper sulfate	salt	sugar
observation	colourless solution	white mixture	blue solution	colourless solution	colourless solution

Which solid did **not** dissolve in water?

..... [1]