

0 1 Conditions inside the human body are controlled.

0 1 . 1 What is the control of conditions inside the body called?

[1 mark]

Tick (✓) **one** box.

Excretion

Fertilisation

Homeostasis

Osmosis

0 1 . 2 What are the **two** ways information is sent to control body conditions?

[2 marks]

Tick (✓) **two** boxes.

By antigens

By hormones

By muscles

By nerve impulses

By red blood cells

0 1 . 3 One condition in the body that needs to be controlled is the level of water.

Give **one** other condition in the human body that needs to be controlled.

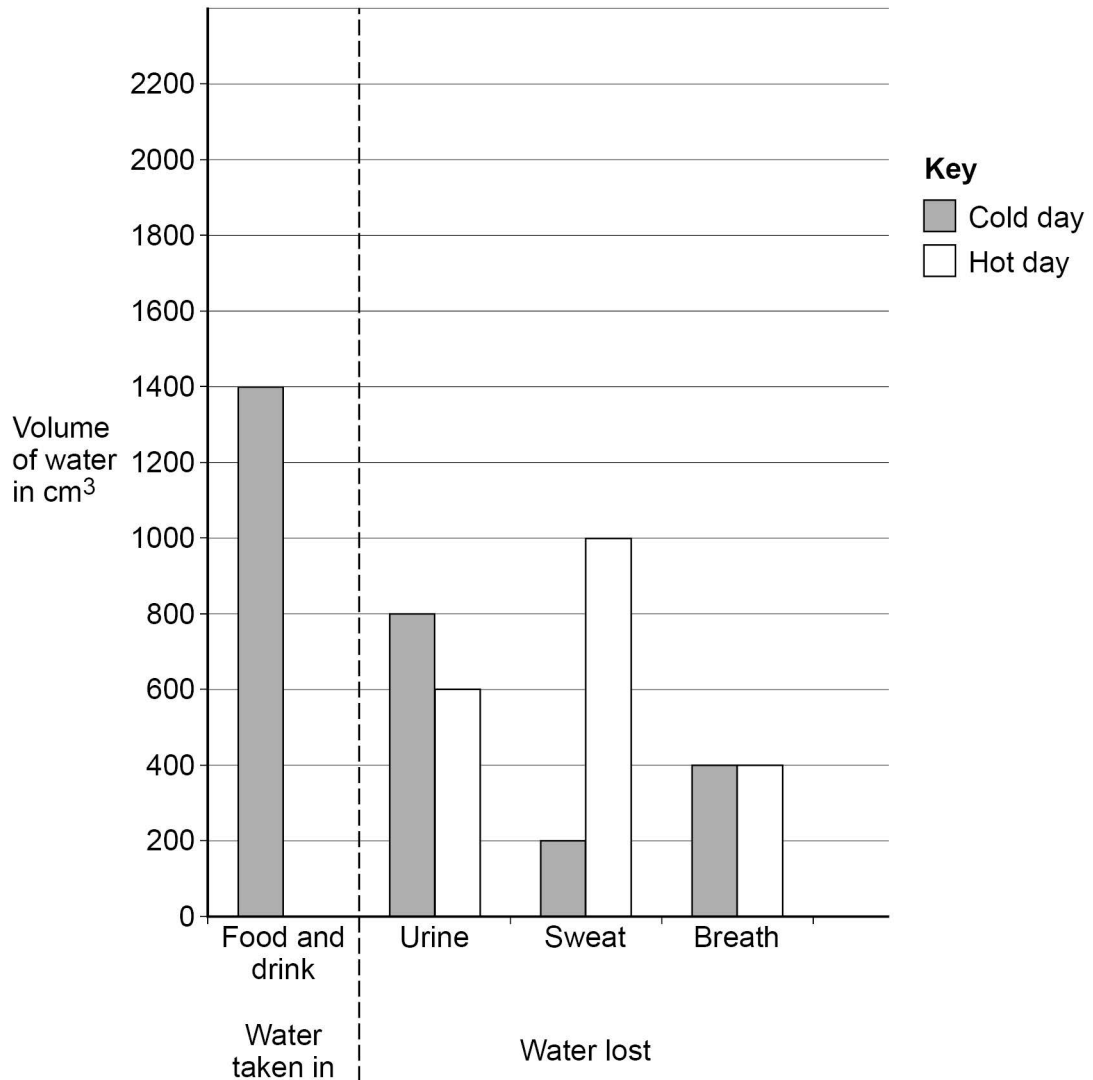
[1 mark]



Figure 1 shows the volumes of water taken in and lost by one person.

The volume for water taken in on a hot day has **not** been plotted on the bar graph.

Figure 1



0 1 . 4

The person lost 1400 cm³ of water on the cold day.

How much extra water did they lose on the hot day?

[2 marks]

Extra volume of water lost = _____ cm³

Turn over ►



0 1 . 5

Explain why the volume of water lost on a hot day is higher than on a cold day.

[2 marks]

0 1 . 6

A boy drank 750 cm^3 of water.His total intake of water for that day was 3000 cm^3 Calculate the percentage of the boy's total intake that the 750 cm^3 represents.**[2 marks]**

Percentage = _____ %

10

Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	homeostasis		1	AO1 4.5.1
01.2	by hormones		1	AO1 4.5.1
	by nerve impulses		1	4.5.3.1
01.3	any one from: <ul style="list-style-type: none"> • temperature • (blood) glucose / sugar (concentration) 	ignore water allow pH / ions / salts allow oxygen or carbon dioxide	1	AO1 4.5.1
01.4	2000 – 1400 600 (cm ³)	an answer of 600 (cm ³) scores 2 marks		AO2 4.5.1
		allow 800 – 200	1	
		if no mark awarded allow (600 + 1000 + 400 =) 2000 for 1 mark	1	
01.5	more sweat (on hot day)		1	AO3 AO2
	cools the body		1	4.5.1
01.6	$\frac{750}{3000} \times 100$ 25 (%)	an answer of 25 (%) scores 2 marks	1	AO2 4.5.1
			1	
Total			10	