
0 7A person with Type 1 diabetes does **not** produce enough of the hormone insulin.**0 7 . 1**

Where is the hormone insulin produced?

[1 mark]Tick **one** box.Brain Pancreas Pituitary Thyroid **0 7 . 2**

How does insulin travel around the body?

[1 mark]

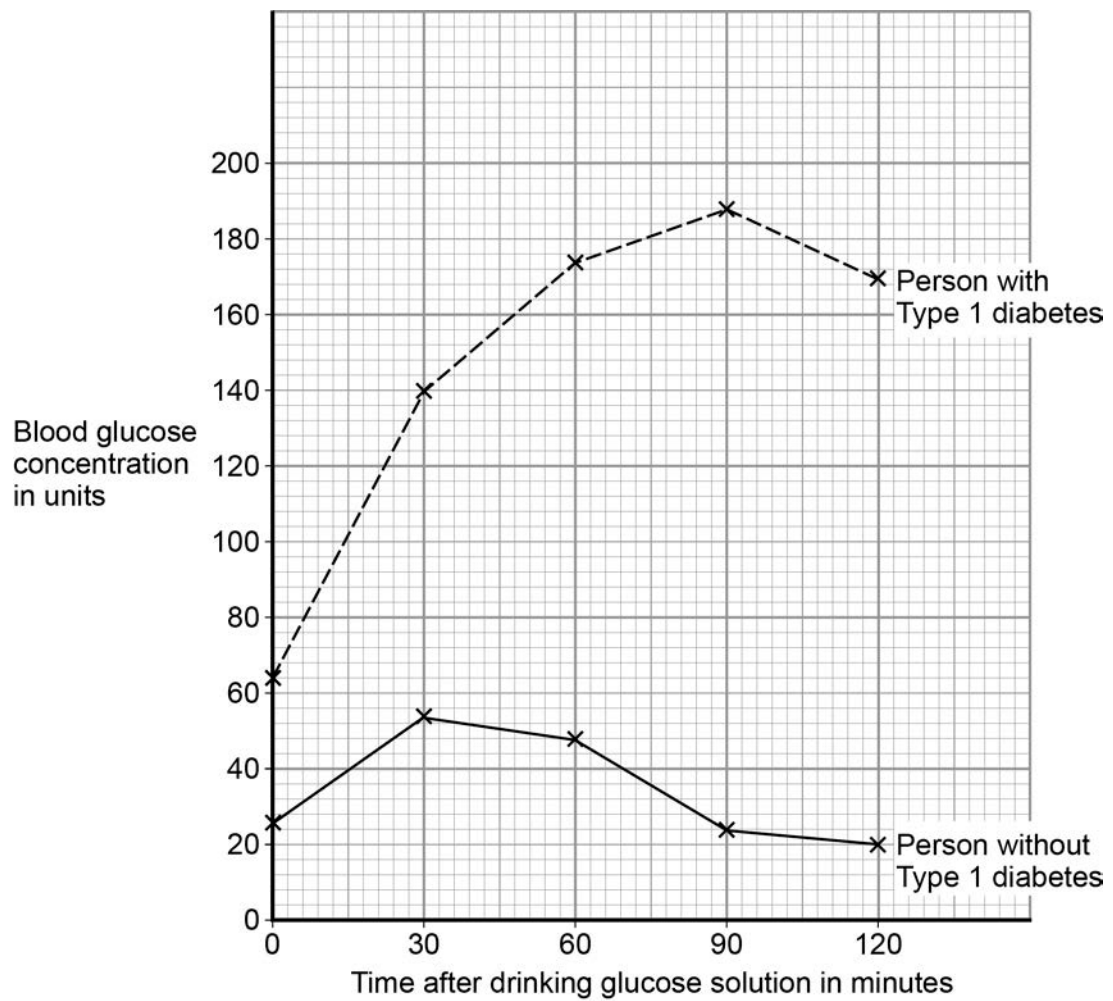
Question 7 continues on the next page

The same concentration and volume of glucose solution was given to two people.

- Person with Type 1 diabetes.
- Person without Type 1 diabetes.

Figure 10 shows how the blood glucose concentration of these two people changed after they each drank a glucose solution.

Figure 10



0 7 . 3 Look at **Figure 10**.

Compare the blood glucose concentrations of the two people.

Include similarities and differences in your answer.

[4 marks]

0 7 . 4 People with diabetes may be asked to control their diet.

Explain how this can help to reduce the risk of developing health problems.

[3 marks]

Turn over for the next question

Question 7 continued

Question	Answers	Extra information	Mark	AO / Spec. Ref.
07.4	<p>reduce carbohydrate / glucose / sugar in diet</p> <p>(so) blood glucose concentration does not increase as much</p> <p>(so) there is reduced named effect (of prolonged high blood glucose)</p>	<p>allow reduced short or long term consequences such as tiredness or increase urination or thirst or eye / kidney / nerve / heart disease</p>	<p>1</p> <p>1</p> <p>1</p>	<p>AO2/1 4.5.3.2</p>
Total			9	