AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.2.2.5

Health issues

Past-paper questions

Tier	**Higher**
Question groups	**1**
Available paper years	**2023–2023**

Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

Name: _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

4.2.2.5 Health issues

Question 01

June 2023 | 8464/B/1H | Original Q1

0 1 Communicable and non-communicable diseases are major causes of ill health.

0 1 . 1 Which disease is a **non-communicable** disease?

[1 mark]

Tick (✓) **one** box.

- AIDS ☐
- Cancer ☐
- Gonorrhoea ☐
- Malaria ☐

Obesity is a risk factor for many non-communicable diseases.

0 1 . 2 Give **one** non-communicable disease that obesity is a risk factor for.

Do **not** refer to the diseases given in Question **01.1** in your answer.

[1 mark]

_____

0 1 . 3 National policies are used to help people who are obese to lose weight.

One national policy is to reduce the amount of sugar added to food and drinks.

Suggest **one other** national policy that could help people to lose weight.

[1 mark]

_____

_____

4.2.2.5 Health issues

Question 01 · continued

0 1 . 4 Body mass index (BMI) is one measure of obesity.

BMI is calculated using the equation:

$$\text{BMI} = \frac{\text{body mass in kg}}{(\text{height in m})^2}$$

Table 1 shows how BMI is used to describe an adult's BMI category.

Table 1

BMI	BMI category
<18.5	Underweight
18.5 to 24.9	Healthy weight
25.0 to 29.9	Overweight
>29.9	Obese

A person is 1.64 m tall and has a mass of 69 kg.

Determine the **BMI category** for this person.

Use the BMI equation and **Table 1**.

[3 marks]

The person's BMI category is _____

Question 1 continues on the next page

4.2.2.5 Health issues

Question 01 · continued

Scientists investigated the effect of smoking and of BMI on the birth mass of babies.

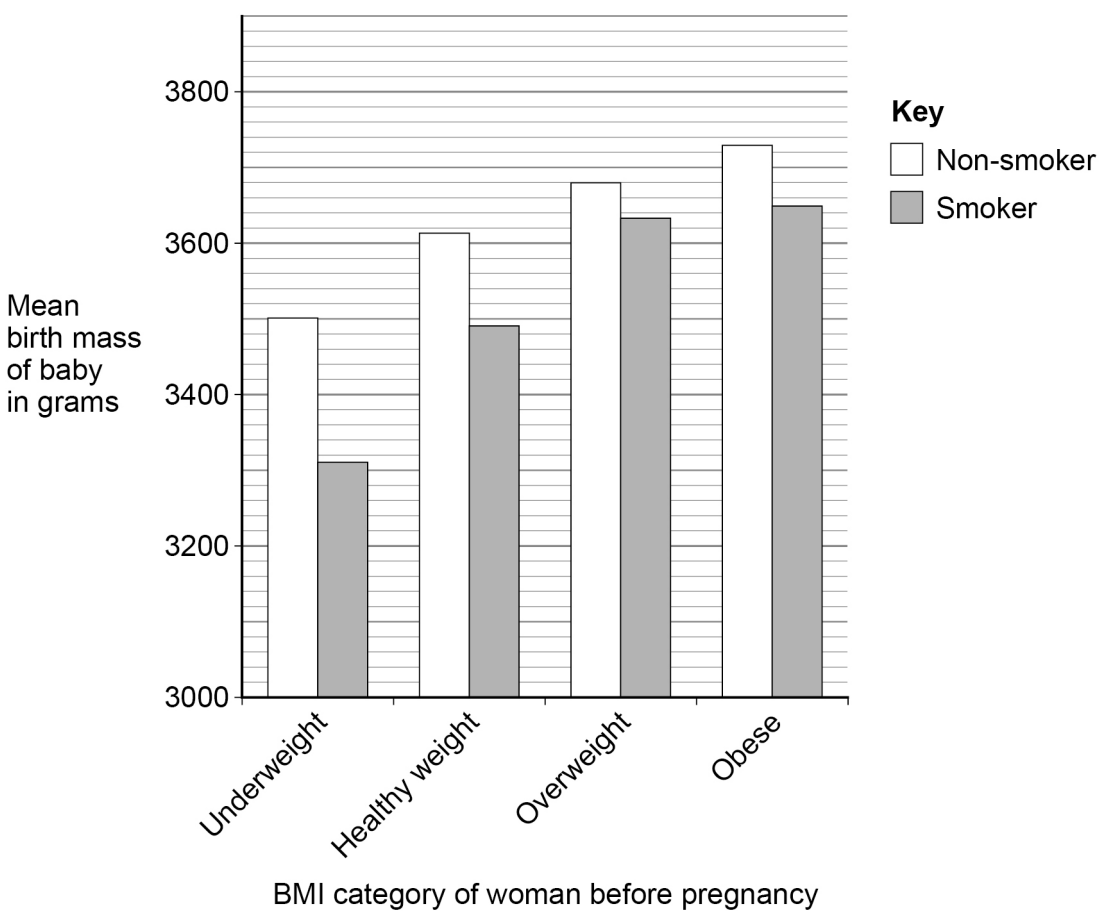
Women's BMI categories were determined before the women became pregnant.

0 1 . 5 Suggest why BMI categories were determined **before** the women became pregnant.

[1 mark]

Figure 1 shows the results.

Figure 1



4.2.2.5 Health issues

Question 01 · continued

0 1 . 6 Give **two** conclusions that can be made from **Figure 1**.

[2 marks]

1 _____

_____

2 _____

_____

0 1 . 7 Measles is a communicable disease.

A virus causes measles.

Describe how the measles virus is transferred from person to person.

[2 marks]

_____

_____

_____

_____

Question 1 continues on the next page

4.2.2.5 Health issues

Question 01 · continued

Athlete's foot is a communicable disease.

A fungus causes athlete's foot.

The athlete's foot fungus infects the skin on feet.

0 1 . 8 Scientists estimate that 17% of the UK population have athlete's foot.

The estimated UK population is 67 961 900

Calculate how many people are estimated to have athlete's foot.

[2 marks]

Estimated number of people with athlete's foot = _____

0 1 . 9 Athlete's foot fungus grows in moist conditions.

Suggest **one** way a person could reduce their chance of catching athlete's foot.

[1 mark]

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