

3 The use of plant products can contribute to sustainability.

(a) Fruits from calabash plants are used to make bowls.

The photograph shows a bowl made from a Nigerian calabash fruit.



(Source: © Irene Abdou / Alamy Stock Photo)

(i) A spherical calabash fruit was cut in half to make two bowls.

Each bowl had a radius of 25 cm.

Calculate the volume of one bowl to the nearest whole number.

Use the formula: volume of a sphere = $\frac{4}{3}\pi r^3$

(2)

Answer cm³

(ii) Explain why bowls made from calabash fruits are a sustainable resource.

(2)

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