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Item 2

A group of students carries out an investigation to determine the percentage composition of different soil components as follows;

- Organic matter = 9%
- Water = 25%
- Minerals = 40%
- Air = 26%

Task

a) Represent this information in a bar graph.

b) Identify the;

i) Sample of soil under investigation.

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ii) Components with lowest composition.

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iii) Mention the importance of each soil components mentioned above.

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b) Another student of senior three (3) performed a similar experiment and obtained the following results;

- Mass of empty dish = 15g
- Mass of dish + fresh soil = 45g
- Mass of dish + heated soil = 40g

Calculate;

i) The mass of soil before heating.

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ii) Mass of heated soil.

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iii) Mass of water evaporated from the soil.

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iv) The percentage of water in the soil.

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