What is Volume?

Volume is the amount of space that a substance, or an object, occupies.



All of the substances above have a different volume as they each take up a different amount of space.

5.5 - Metric Units for Volume





5.5 - Metric Units for Volume page 135

4. A researcher claims that the average amount of fresh water used in Canada is 125 m^3 per person per year.

a) How much is this in cubic centimeters per person per day?





b) How much is this in litres per person per day?

Your Turn!

complete # 1 and 2 on page 135

5.4 - Imperial Units for Volume page 132



5.4 - Imperial Units for Volume page 132

Example: Kyle, a bricklayer, needs 245 cu ft of lime to use in mortar. How many whole cubic yards of lime does Kyle need to buy?

Your Turn!

complete # 1 and 3 on page 133

5.6 - Volume in Different Systems

When converting between systems, using the following ratios:



Units of volume



Volume is measured in cubic units.

Here is a cubic centimetre or 1 cm³.



5.6 - Volume in Different Systems page 136

Example:

Matt is the manager of an arena. He wants to buy 14m³ of sand to create beach volleyball courts in the arena after the skating season ends. How many cubic yards of sand does he need?



Your Turn! complete # 1-4 and 6 on page 137