Answer on Question #61609 – Math – Geometry

Question

Find the approximate change in the volume of a rectangular solid caused by increasing side by 5% .

Solution

Because of a side increased by 5%, volume will be $(1.05)^3 = 1.157625$.

It was increased by

$1.157625 - 1 = 0.157625$ or 15.7625%.

Answer: increase by 15.7625%.