

Answer on Question #70222 – Math – Geometry

Question

Suppose that a rectangular classroom is 43 feet long, 19 feet wide and has a volume of 3,665 cubic feet. How high above the floor is the ceiling?

Solution

$$a = 43, b = 19, a \times b = 817,$$

the volume of a classroom is $a \times b \times h = 3665 \Rightarrow$

$$\Rightarrow \text{the ceiling is } h = \frac{3665}{817} \cong 4.48592 \text{ ft. above the floor.}$$

Answer: 4.48592 ft.