Answer on Question #43913 – Math – Geometry

Question:

A room is 12 m by 10 m. Find the cost of covering its floor with bricks 20 cm by 6 cm, if the cost of one thousand bricks is Rs 300.

Solution:

The cost of one thousand bricks is Rs 300, hence one brick costs $\frac{300}{1000} = 0.3$ (Rs).

By formula of area of rectangle, the area of 1 brick is $0.2\,m \times 0.06\,m = 0.012\,m^2$. The area of the room is 12 m×10 m=120 m^2. So, to cover the room's floor, we need $\frac{120}{0.012} = 10000$ bricks. Finally, 10000 bricks cost 0.3*10000=3000 (Rs).

Answer: Rs 3000**.**