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Step 1: Let the volume of the cube equal the volume of the prism and solve for the height.

Vol. Cube = Vol. Prism
(I • w • h)<sub>cube</sub> = (I • w • h)<sub>prism</sub>
(12m)<sup>3</sup> = 24m • 6m • h
1728 m<sup>3</sup> = 144 m<sup>2</sup> • h
1728 m<sup>3</sup> = h
144 m<sup>2</sup>
12 m = h
The prism is 12 m high.
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