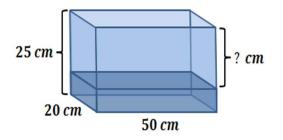
Prism Word Problems Worksheets

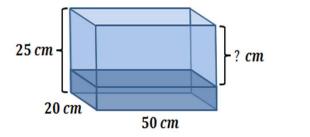
7.2 *L* of water are poured into a container in the shape of a right rectangular prism. The inside of the container is 50 *cm* long, 20 *cm* wide, and 25 *cm* tall. How far from the top of the container is the surface of the water? (1 $L = 1,000 c^{m}$)



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Prism Word Problems Worksheets

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7.2 L = 7,200 cm³

$$V = Bh$$

$$V = (lw)h$$
7,200 cm³ = (50 cm)(20 cm)h
7,200 cm³ = 1,000 cm² · h
7,200 cm³ · $\frac{1}{1,000 \text{ cm}^2} = 1,000 \text{ cm}^2 \cdot \frac{1}{1,000 \text{ cm}^2} \cdot h$

$$\frac{7,200}{1,000} \text{ cm} = 1 \cdot h$$
7.2 cm = h

The depth of the water is 7.2 cm. The height of the container is 25 cm. 25 cm - 7.2 cm = 17.8 cmThe surface of the water is 17.8 cm from the top of the container.

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