## Answer on Question \#43984 - Math - Geometry

A cistern 6 m long, 4 m wide, contains water to a depth of 1 m 25 cm : find the area of the wet surface.

## Solution.



The area of the bottom wet face of a cistern is equal to

$$
S_{1}=6 \cdot 4=24 \mathrm{~m}^{2} .
$$

The area of the front and back wet faces of a cistern is equal to

$$
S_{2}=6 \cdot 1.25=7.5 \mathrm{~m}^{2} .
$$

The area of the left and right wet faces of a cistern is equal to

$$
S_{3}=4 \cdot 1.25=5 \mathrm{~m}^{2} .
$$

The area of the wet surface is equal to

$$
S=S_{1}+2 S_{2}+2 S_{3}=24+15+10=49 \mathrm{~m}^{2}
$$

Answer. $S=49 \mathrm{~m}^{2}$.

