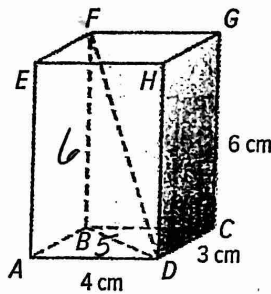


Finding missing parts of Rectangular Prisms & Cubes

1. In the figure, \overline{BD} is the diagonal of the base and \overline{FD} is the diagonal of the figure. Find \overline{FD} to the nearest tenth.

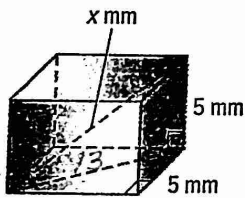
$$\begin{aligned}\overline{BD} &= 3^2 + 4^2 = \\ &9 + 16 = 25 \\ &5\end{aligned}$$



$$\begin{aligned}FD &= c = \\ 5^2 + 6^2 &= c^2 \\ 25 + 36 &= c^2 \\ 61 &= c^2 \\ \sqrt{61} &= \boxed{7.8 \text{ cm}} =\end{aligned}$$

Find the missing measure in each figure below. Round to the nearest tenth, if necessary.

2.



$$5^2 + 12^2 = x^2$$

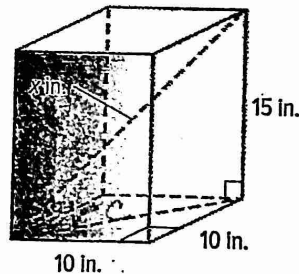
$$5^2 + 13^2 = x^2$$

$$25 + 169 = x^2$$

$$194 = x^2$$

$$\boxed{13.9 \text{ mm} = x}$$

3.



$$10^2 + 10^2 = c^2$$

$$100 + 100 = c^2$$

$$200 = c^2$$

$$\sqrt{200} = c$$

$$15^2 + (\sqrt{200})^2 = x^2$$

$$225 + 200 = x^2$$

$$425 = x^2$$

$$\boxed{20.6 \text{ in} = x}$$