## Answer on Question \#52329 - Chemistry - Physical Chemistry

Copper crystallizes in a fcc lattice with a unit cell length of 362 pm what thatha radius of the copper atom in pm..
1)157
2)181
3)108
4)128

## Answer:



$$
\begin{gathered}
4 R=a \sqrt{2} \Rightarrow R=\frac{a \sqrt{2}}{4} \\
\mathrm{R}=\frac{362 \times \sqrt{2}}{4}=\mathbf{1 2 8} \mathbf{~ p m}
\end{gathered}
$$

