## Question #75355, Chemistry / Other / Completed

How many total d orbitals can fit in a fourth level?

## **Solution:**

The sequence is as follows:

$$1s \rightarrow 2s \rightarrow 2p \rightarrow 3s \rightarrow 3p \rightarrow 4s \rightarrow 3d \rightarrow 4p \rightarrow 5s \rightarrow 4d \rightarrow 5p \rightarrow ...$$

So when we're talking about 4th level it's 3d orbital, each contains 5 d orbitals!

Answer: 5.

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