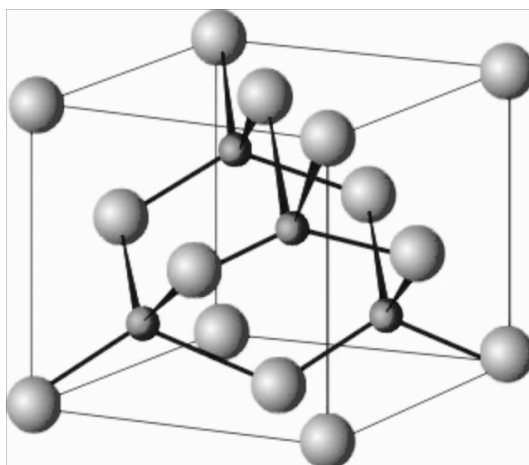


Marks
2

- The cubic form of boron nitride (borazon) is the second-hardest material after diamond and it crystallizes with the structure shown below. The large spheres represent nitrogen atoms and the smaller spheres represent boron atoms.



From the unit cell shown above, determine the empirical formula of boron nitride. Show your working.

Answer:

THE REMAINDER OF THIS PAGE IS FOR ROUGH WORKING ONLY.