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1.1 (a) fcc: 8 corner

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atoms $\times 1/8 = 1$ atom
6 face atoms $\times 1/2 = 3$

atoms Total of 4 atoms
per unit cell (b) bcc: 8
corner atoms $\times 1/8 = 1$
atom 1 enclosed atom
 $= 1$ atom Total of 2

atoms per unit cell (c)

Diamond: 8 corner

atoms $\times 1/8 = 1$ atom
6 face

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Semiconductors have the resistivity which is less than insulators and more than conductors.

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