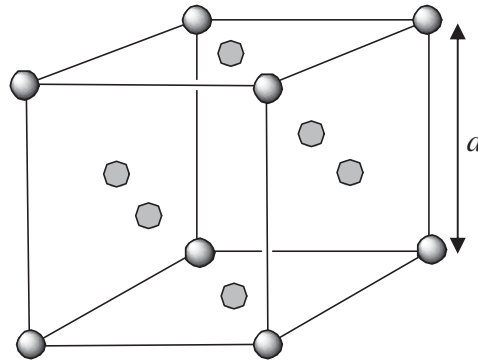


- The diagram below shows the structure of an alloy of copper and gold with a gold atom at each of the corners and a copper atom in the centre of each of the faces. The unit cell dimension (edge length, a) for this alloy is 0.36 nm.

Marks
5



● = Au

○ = Cu

What is the chemical formula of the alloy?

	Answer:
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Given that pure gold is 24 carat and gold alloyed with 25% by weight of another metal is termed 18 carat gold, what carat gold is this alloy?

	Answer:
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What is the volume of the unit cell?

	Answer:
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What is the density of the alloy?

	Answer:
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