a) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density 12g/cm ³ and metal B has density 25g/cm ³ . The sphere is formed using 180g of metal A and 450g of metal B.	a) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density 12g/cm ³ and metal B has density 25g/cm ³ . The sphere is formed using 180g of metal A and 450g of metal B.
Calculate the surface area of the ornamental sphere, giving your solution to three significant figures.	Calculate the surface area of the ornamental sphere, giving your solution to three significant figures.
 b) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density 18g/cm³ and metal B has density 10g/cm³. The sphere is formed using 450g of metal A and 390g of metal B. 	 b) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density 18g/cm³ and metal B has density 10g/cm³. The sphere is formed using 450g of metal A and 390g of metal B.
Calculate the density of the ornamental sphere, giving your solution to three significant figures.	Calculate the density of the ornamental sphere, giving your solution to three significant figures.
c) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density $20g/cm^3$ and metal B has density $x g/cm^3$. The sphere is formed using 200g of metal A and 450g of metal B.	c) An ornamental sphere is formed of an alloy of two metals, A and B. Metal A has density $20g/cm^3$ and metal B has density $x g/cm^3$. The sphere is formed using 200g of metal A and 450g of metal B.
Given that the sphere has radius 1.81cm to 2 decimal places, find the value of x .	Given that the sphere has radius 1.81cm to 2 decimal places, find the value of x .
BACKWARD FADED MATHS	BACKWARD FADED MATHS