

<p>a) A solid metal sphere has surface area 452.39cm^2 to two decimal places, and mass 3kg.</p> <p>Show that the density of this sphere is 3.3g/cm^3, correct to one decimal place.</p>	<p>a) A solid metal sphere has surface area 452.39cm^2 to two decimal places, and mass 3kg.</p> <p>Show that the density of this sphere is 3.3g/cm^3, correct to one decimal place.</p>
<p>b) A solid plastic cube has density 1.5g/cm^3 and a surface area of 54cm^2.</p> <p>Show that the mass of the cube is 40.5g.</p>	<p>b) A solid plastic cube has density 1.5g/cm^3 and a surface area of 54cm^2.</p> <p>Show that the mass of the cube is 40.5g.</p>
<p>c) A car sets off on a journey of 180 miles at 9am. It travels at an average speed of 66mph for the first 90 minutes.</p> <p>Show that if they want to arrive by 12 noon, they must travel at a minimum speed of 54mph.</p>	<p>c) A car sets off on a journey of 180 miles at 9am. It travels at an average speed of 66mph for the first 90 minutes.</p> <p>Show that if they want to arrive by 12 noon, they must travel at a minimum speed of 54mph.</p>