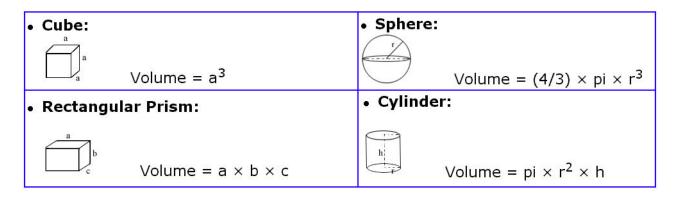
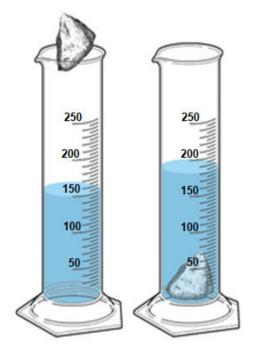
Volume



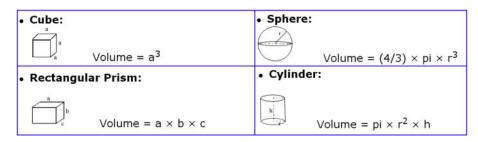
1. Iron has a density of 7.86 g/cm³. What is the mass in grams of a cube of iron that measures 12.5 cm on a side?

2. A flag pole has a mass of 30.0 kg and a length of 12 meters. If the radius is 9.5 cm, what is the density of the flag pole?

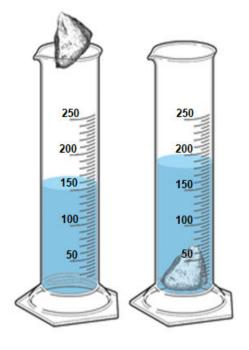


3. The density of a piece of metal is determined by the water displacement method. The metal had a mass of 17.30 g. Use the image to the left to determine the density of this object. Record your answer to the proper number of significant digits.

Volume



- 1. Silver has a density of 10.5 g/cm^3 . A rectangular block of silver has a width of 9.75 cm and a length of 11.40 cm and a mass of 5.25 kg. What is the height of the block?
- 2. A plastic ball has a mass of 4.25 grams and a radius of 1.5 cm. What is the density of the ball?



4. The density of a piece of metal is determined by the water displacement method. The metal had a mass of 8.92 g. Use the image to the left to determine the density of this object. Record your answer to the proper number of significant digits.