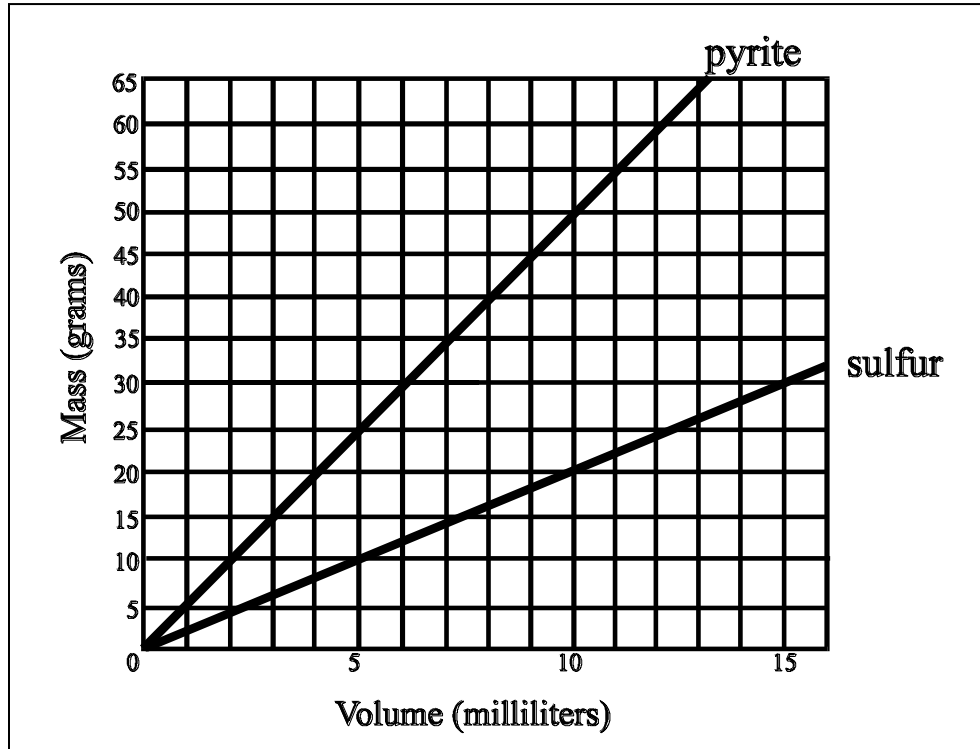
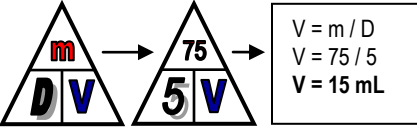


Topic: Measurement and Constructing Graphs

Aim: How is density determined graphically?



- If the volume of a sample of pyrite is 5 milliliters, what is the mass of the sample? **25 g**
- If the mass of a sample of sulfur is 30 grams, what is the volume of the sample? **15 mL**
- What is the density of pyrite? (show all work)
pick any point on the pyrite line and use the mass and volume correspond to that point
 $D = m / V$
 $D = 25g / 5mL$
 $D = 5 g/mL$
- What is the density of sulfur? (show all work)
pick any point on the sulfur line and use the mass and volume correspond to that point
 $D = m / V$
 $D = 30g / 15mL$
 $D = 2 g/mL$
- If a sample of pyrite has a mass of 75 grams, and we already know what the density of pyrite is, what would be the volume of that sample?



or

 $D = m / V$
 $5g/mL = 75g / V$
 $V = 75g / 5g/mL$
 $V = 15 mL$