Density $= \dfrac{\text{mass}}{\text{volume}}$ # Warm Up

Problem 1: You have a rock with a volume of 15cm^3 and a mass of 45 g. What is its density?

Problem 2: A student finds a rock on the way to school. In the laboratory he determines the volume of the rock. He fills a graduated cylinder with 50 mL of water. When he drops the rock into the graduated cylinder the water rises to 57.5 mL. What is the volume of the rock?

Problem 3: He then places the rock (Problem 2) on a triple beam balance and measures the mass of the rock. He records the mass as 274.3 g. What is the density of the rock?