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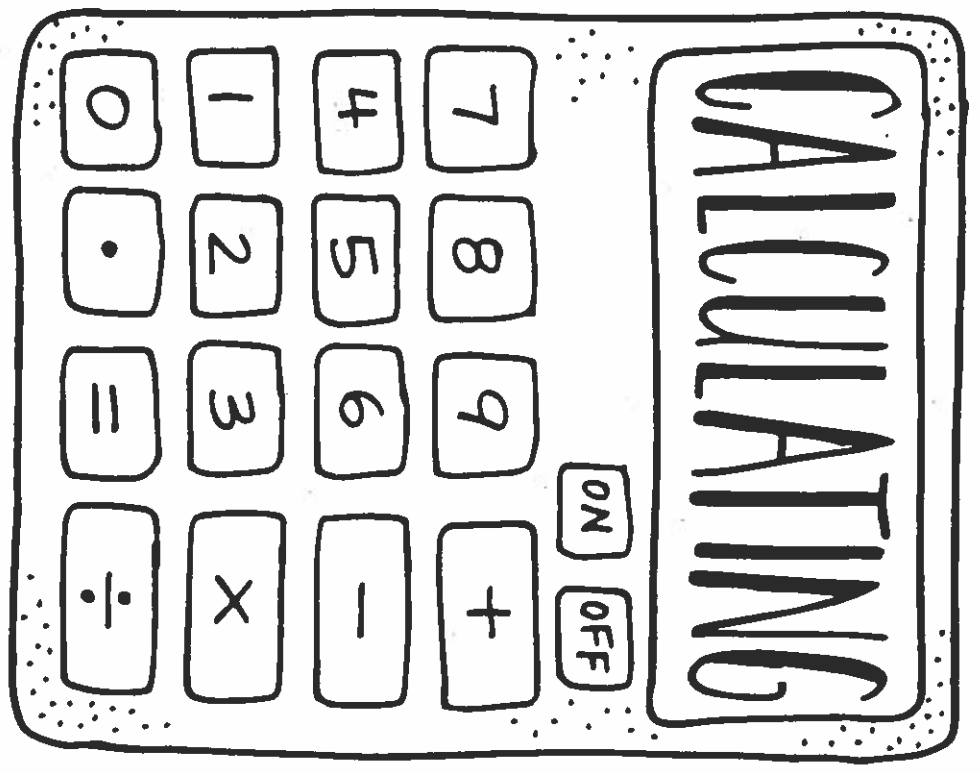


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DENSITY

① A substance has a mass of 10g and a volume of  $5\text{ cm}^3$ . Calculate density:

② A liquid has a volume of 4mL and a mass of 24 grams. What is the density of the liquid?

③ A large marble is dropped in a graduated cylinder with 35mL of water in it. The water level increases to 49mL. What is the volume of the marble?

④ A small rock with a mass of 6g is dropped into a graduated cylinder with 20 mL of water. The water rises to 23mL. What is the density of the rock?

⑤ What substance will float on water?  
A. Solid, density =  $2\text{g/cm}^3$   
B. liquid, density =  $4\text{g/cm}^3$   
C. Solid, density =  $0.39\text{g/cm}^3$

⑥ An object has a mass of 18 grams and its volume is  $2\text{ cm}^3$ . Calculate density: