

### Holey Moley HW

1. How many grams of NaCl are in 500 mL of a 0.250 M solution? How many moles of NaCl does this represent?
2. What is the molarity of 250 mL of solution containing 20.0 grams of sodium chloride, NaCl?
3. How much glucose (in grams) would you need to prepare one liter of a 0.050 M solution? The molecular formula for glucose is  $C_6H_{12}O_6$ .
4. What is the molarity of 500 mL of solution containing 31 grams of sucrose,  $C_{12}H_{22}O_{11}$ ?
5. How many grams of sucrose are in 100 mL of a 0.50 M solution? How many moles of sucrose does this represent?
6. What volume of 2.0 M sucrose is needed to make 1 L of 1.0 M sucrose?

Selected Answers:

1. 7.3g
2. 1.4M