

CLASS SET

More Molarity Practice

1. How many grams of K_2O are needed to prepare a 200.0mL 0.25M solution?**4.7g**
2. How many grams of $MgCl_2$ are needed to prepare a 150mL 0.50M solution?**7.1g**
3. How many grams are in 100.0mL of a 0.10M solution of $NaCl$?**0.58g**
4. What is the concentration of a solution made from mixing 25g of $C_6H_{12}O_6$ and diluting with water to 250 mL?**0.56M**
5. What is the concentration of a solution prepared by mixing 3.2g of $NaOH$ and diluting to 0.5 L with water?**0.16M=0.2M**
6. What is the concentration of a solution prepared by mixing 7.76g of $HC_2H_3O_2$ and diluting to 750mL with water?**0.17M**
7. How many grams are in 0.20L of a 0.50M solution of $HC_2H_3O_2$?**6.0g**
8. How many milliliters are required to prepare a 0.45M solution of $Cu(OH)_2$ if 2.3g is used?**52mL**
9. How many liters are required to prepare a 0.6M solution of CuO if 5.72g is used?**0.2L**
10. How many liters are required to prepare a 0.25M solution of $AgNO_3$ if 1.23g is used?**0.029L**
11. How many liters are required to prepare a 1.2M solution of $NaOH$ if 20.3g is used?**0.42L**
12. What will be the volume of a 2.5M solution of $NaOH$ if 35.6g is added?**0.356L (or356mL)**
13. If 10.2g of $AgCl$ is diluted to 250mL with water, what is the resulting concentration?**0.29M**
14. How would you prepare a 500mL 0.2M solution of $AgNO_3$ if you have a 0.5M solution to use? **Pour out 200mL of the 0.5M solution and dilute to the 500mL mark with water.**
15. How would you prepare a 200mL 0.2M solution of $AgNO_3$ if you have a 0.5M solution to use?**Pour out 80mL of the 0.5M solution and dilute to the 200mL mark with water.**
16. How many milliliters of a 2.0M solution of $NaOH$ would you need to prepare 500mL of a 1.0M solution?**250mL**
17. How many milliliters of a 12M solution of HCl would you need to prepare 1.0L of a 1.0M solution?**83mL**
18. How many milliliters of an 18M solution of H_2SO_4 would you need to prepare 500mL of a 2.0M solution?**55.6mL**
19. How many milliliters of an 18M solution of H_2SO_4 would you need to prepare 2.0L of a 1.0M solution?**111mL=110mL**
20. How many milliliters of a 6.0M HCl solution would you need to prepare 250mL of a 2.0M solution?**83mL**