

2016 Region VII Medical Math Study Guide

Name: _____

Department: _____

**Calculate the following drug orders and medical math problems.
Please show your work!!!**

1. 165 pounds = _____ kg
2. 100 mcg/2ml = _____ mcg/ml
3. 1mg/10ml = _____ mg/ml
4. The repeat dose of drug A is 0.75 mg/kg for a patient weighing 198 pounds. How many mg would you give?
5. The dose of drug B is 2mcg/kg for a patient weighing 29 pounds. How many mcg would you give?
6. You have 10mg/ml. Medical control orders 3.6 mg. How many ml would you give?
7. You have 100mcg/2ml. Medical control orders 75mcg. How many ml would you give?
8. You have 6mg/2ml. Medical control orders 0.1mg/kg. How many ml would you give a 27 kg patient?
9. You have 1mg/ml. Medical control orders 0.01 mg/kg. How many ml would you give a 40 pound patient?

10. You have 50mg/ml. Medical control orders 1mg/kg. How many ml would you give a 45 pound patient?

11. You have 100mcg/2ml. Medical control orders 2mcg/kg. How many ml would you give a 23kg patient?

12. You have 0.1mg/ml or 1mg/10ml. Medical control orders 0.01mg/kg. How many ml would you give a 66 pound patient?

13. You have 5mg/5ml. Medical control orders 0.05mg/kg. How many ml would you give a 28 kg patient?

14. You have 10mg/2ml or 5mg/ml. Medical control orders 0.15mg/kg IN. How many ml would you give in each nostril for a 60 pound patient?

15. Medical control instructs you to give 250 ml of fluid through a 10gtt/ml infusion set over 40 minutes. How many drops per minute is that?

16. What is the maximum single dose of Fentanyl for a pediatric patient?

17. What is the maximum volume that can be given in each nare for intranasal administration?