

2022 Region VII Medical Math Study Guide

Name: _____

Department: _____

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

1. 185 pounds = _____ kg
2. 100 mcg/2ml = _____ mcg/ml
3. 1mg/10ml = _____ mg/ml
4. The dose of drug A is 1mcg/kg for a patient weighing 48 pounds. How many mcg would you give?
5. You have 10mg/ml. Medical control orders 3.8 mg. How many ml would you give?
6. You have 100mcg/2ml. Medical control orders 75mcg. How many ml would you give?
7. You have 6mg/2ml. Medical control orders 0.1mg/kg. How many ml would you give a 35 kg patient?
8. You have 1mg/ml. Medical control orders 0.01 mg/kg. How many ml would you give a 40 pound patient?
9. You have 50mg/ml. Medical control orders 1mg/kg. How many ml would you give a 35 pound patient?

10. You have 100mcg/2ml. Medical control orders 1mcg/kg. How many ml would you give a 23kg patient?

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

12. You have 150mg/3ml. Medical control orders 5mg/kg. How many ml would you give a 28 kg patient?

13. 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?

14. Medical control instructs you to give 250 ml of fluid through a 10gtt/ml infusion set over 20 minutes. How many drops per minute is that?
How many drops per second is that?

15. Medical control instructs you to give 100 ml of fluid through a 15gtt/ml infusion set over 10 minutes. How many drops per minute is that?
How many drops per second is that?

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

Check your answers:

1. 84
2. 50
3. 0.1
4. 22mcg
5. 0.38ml or 0.4ml
6. 1.5ml
7. 1.2ml
8. 0.18ml
9. 0.32ml
10. 0.46ml
11. 3ml
12. 2.8ml
13. 0.8ml or 0.4ml per nare
14. 125gtts/min or 2 gtts/sec
15. 150 gtts/min or 2.5 gtts/sec
16. 1ml