



# COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH

# **Practice Medication Calculation Examination Answer Sheet**

1. The order is for 200 mg. The label reads 250mg /5ml. You would give \_\_\_\_ml(s).

### $200 \div 250 \ge 5 = 4 = 4 = 1$

2. The order is for 60mg. The label reads gr. 1 per tablet. You would give \_\_\_\_\_tablet(s).

## <u>**1** gr. = 60 mg : $1 \div 1 \ge 1 \ge 1$ tablet = 1 tablets</u>

3. The order is for 60 ml. You would give \_\_\_\_\_tablespoon(s).

### $1 \text{ Tbsp} = 15 \text{ ml} : 60 \div 15 = 4 \text{ tablespoons}$

4. The order is for 60mg. The label reads 60 mg/2 ml. You would give \_\_\_\_ml.

### $\underline{60 \div 60 \times 2 \text{ ml} = 2 \text{ ml}}$

5. The order is for 1000 ml. of I.V. solution to be infused at 125 ml/hr. You would infuse the solution for \_\_\_\_hours.

### $1000 \div 125 = 8$ hours

6. The order is for 6000 ml of IV solution to run over a 24 hour period. The drop factor of the I.V tubing is 10 gtts/ml. You would infuse \_\_\_\_\_gtts/min.

### 6000 ml x 10 gtts/ml ÷ 24 hour x 60 minutes = 41.66gtt/min

7. Your patient weighs 75 kg and you are ordered to infuse 250 mg dobutamine in 500 ml NS at 10 mcg/kg/min. How many milligrams of dobutamine will infuse per hour?

### <u>10 mcg x 75 kg x 60 minutes = 45000÷ 1000(convert mcg to mg) = 45 mg/hour</u>

8. The order is 500 mg of Rocephin to be taken by a 15.4 lb infant every 8 hours. The medication label shows that 75-150 mg/kg per day is the appropriate dosage range. How much will the patient receive per day? Is this within the normal range?

7 kg x 75 = 525 mg (minimum dosage) 7 kg x 150 = 1050 mg (maximum dosage)  $24 \div 8 = 3$  doses 500 mg x 3 = 1500 mg per day

# No, not within the normal range





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9. The order is Solumedrol 3mg/kg for a child weighing 20kg. Solumedrol is available as 125 mg / 2 ml. How many ml must the nurse administer?

# $3 \ge 20 = 60 \text{ mg}: 60 \div 125 \ge 2 = 0.96 \text{ ml}$

10. The order : KayCiel 30 mEq PO Bid pc.

Available: Kay Ciel 45 mEq/15 ml.

How many ml of KayCiel should you administer?

# $30 \div 45 \text{ x } 15 \text{ ml} = 10 \text{ ml}$

11. The order is for 25 mg. The label reads 75mg/ml. How many ml(s) would you give?

# $25 \text{ ml} \div 75 \text{ ml} \ge 1 \text{ ml} = 0.33 \text{ ml}$

12. The order is for 1.5 g The label reads 1 tablet equals 3 g. How many tablet (s) would you give?

## $1.5 \text{ gm} \div 3 \text{ gm} \text{ x 1 tablet} = 0.5 \text{ tablet}$

13. The order is for 400mcg of thyroxin. The label reads 0.2 mg tablets.

How many tablets would you give?

## $400 \div 1000 = 0.4$ : $0.4 \div 0.2 \ge 1$ tablet - 2 tablets

14. The order is Penicillin G 1.2 million units IM daily.

Available: Penicillin G 9 million units/1 ml.

How many ml will you give?

## <u>1.2 units ÷ 9 units x 1 = 0.13 ml</u>

15. Convert 75 lbs into kg.

 $75 \div 2.2 = 34.1$  kg.