## COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH

## Practice Medication Calculation Examination Answer Sheet

1. The order is for 200 mg . The label reads $250 \mathrm{mg} / 5 \mathrm{ml}$. You would give $\qquad$ $\mathrm{ml}(\mathrm{s})$.
$\underline{200 \div 250 \times 5 \mathrm{ml}=4 \mathrm{ml}}$
2. The order is for 60 mg . The label reads gr. 1 per tablet. You would give $\qquad$ tablet(s).
$1 \mathrm{gr} .=60 \mathrm{mg}: 1 \div 1 \times 1$ tablet $=1$ tablets
3. The order is for 60 ml . You would give $\qquad$ tablespoon(s).

1 Tbsp= $15 \mathrm{ml}: 60 \div 15=4$ tablespoons
4. The order is for 60 mg . The label reads $60 \mathrm{mg} / 2 \mathrm{ml}$. You would give $\qquad$ ml.
$\underline{60 \div 60 \times 2 \mathrm{ml}=2 \mathrm{ml}}$
5. The order is for 1000 ml . of I.V. solution to be infused at $125 \mathrm{ml} / \mathrm{hr}$. You would infuse the solution for $\qquad$ 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 $10 \mathrm{gtts} / \mathrm{ml}$. You would infuse $\qquad$ gtts/min.
$6000 \mathrm{ml} \mathrm{x} 10 \mathrm{gtts} / \mathrm{ml} \div 24$ hour $\times 60$ minutes $=41.66 \mathrm{gtt} / \mathrm{min}$
7. Your patient weighs 75 kg and you are ordered to infuse 250 mg dobutamine in 500 ml NS at $10 \mathrm{mcg} / \mathrm{kg} / \mathrm{min}$. How many milligrams of dobutamine will infuse per hour?
$10 \mathrm{mcg} \times 75 \mathrm{~kg} \times 60$ minutes $=45000 \div 1000($ convert mcg to mg$)=45 \mathrm{mg} /$ hour
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 $75-150 \mathrm{mg} / \mathrm{kg}$ per day is the appropriate dosage range. How much will the patient receive per day? Is this within the normal range?
$7 \mathrm{~kg} \times 75=525 \mathrm{mg}$ (minimum dosage) $7 \mathrm{~kg} \times 150=1050 \mathrm{mg}$ (maximum dosage) $24 \div 8=3$ doses
$500 \mathrm{mg} \times 3=1500 \mathrm{mg}$ per day
No, not within the normal range

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9. The order is Solumedrol $3 \mathrm{mg} / \mathrm{kg}$ for a child weighing 20 kg . Solumedrol is available as $125 \mathrm{mg} / 2 \mathrm{ml}$. How many ml must the nurse administer?
$3 \times 20=60 \mathrm{mg}: 60 \div 125 \times 2=0.96 \mathrm{ml}$
10. The order : KayCiel 30 mEq PO Bid pc.

Available: Kay Ciel $45 \mathrm{mEq} / 15 \mathrm{ml}$.
How many ml of KayCiel should you administer?
$\underline{30 \div 45 \times 15 \mathrm{ml}=10 \mathrm{ml}}$
11. The order is for 25 mg . The label reads $75 \mathrm{mg} / \mathrm{ml}$. How many $\mathrm{ml}(\mathrm{s})$ would you give?

## $\underline{25 \mathrm{ml} \div 75 \mathrm{ml} \mathrm{x} 1 \mathrm{ml}=0.33 \mathrm{ml}}$

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

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

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

How many tablets would you give?
$\underline{400 \div 1000=0.4: ~} 0.4 \div 0.2 \times 1$ 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?
1.2 units $\div 9$ units $\times 1=0.13 \mathrm{ml}$
15. Convert 75 lbs into kg.
$75 \div 2.2=34.1 \mathrm{~kg}$.

