

CLEARLY PRINT YOUR NAME: \_\_\_\_\_

**Sample exam directions:**

PLEASE read each question carefully. Show all work either on this paper or on a separate piece of paper. No work; no credit. Your work must logically lead to your answer to receive credit. You must round according to the BC rounding rules and adhere to the JCAHO *Do Not Use* list. For example, leading zeros are required before a decimal point and no trailing zeros are allowable. Clearly identify your answers on the exam form (this paper). Blanks and unlabeled answers will be scored as incorrect. The exam booklet is only to be used for the taking and reviewing of the test. It is not to be taken out of the classroom. Any other use or removal from the classroom constitutes unauthorized possession of an examination and will be considered a violation of academic honesty.

**NURSING PROCESS MATH WORKBOOK A**

- 1     Ordered: Mycodan 0.125 g at bedtime  
Supply: Mycodan 250 mg scored tabs  
Give \_\_\_\_ each dose.
  
- 2     Ordered: Demerol 75 mg IM q4-6h prn pain  
Have: Demerol 50 mg / mL  
How many mL will you give? \_\_\_\_\_
  
- 3     Ordered: Phenobarb 12 mg po  
Have: Phenobarb 30 mg / 4mL  
Give \_\_\_\_\_ .
  
- 4     Give Kaon elixir 20 meq from the bottle labeled: Kaon elixir 10 meq / 5 mL. Give \_\_\_\_
  
- 5     Order: Tancaine 2 g po tid  
Supply: Tancaine 500 mg tabs  
Give \_\_\_\_ each dose?
  
- 6     Give Mysoline 0.125 g from tablets labeled 250 mg. Give \_\_\_\_.
  
- 7     The physician orders gr iss and you have on hand tablets labeled 60 mg. Each. The dose of gr iss is how many mg.? \_\_\_\_\_
  
- 8     The physician orders gr 1/8. You have an ampule labeled 30 mg / mL. The patient should receive \_\_\_\_?
  
- 9     You receive an order for 0.2 g of Tigan on your post C-section patient. The floor stock is a 5 mL vial labeled 100 mg / mL. How many mL should you give?\_\_\_\_\_
  
- 10    Give Phenobarbital Sodium 65 mg IM. The drug is available at 130 mg / mL. Give \_\_\_\_\_

- 11 Ordered: Dilantin 750 mg IV  
Have: 50 mg / mL.  
How many mL would you give? \_\_\_\_\_
- 12 Order: Keflex 500 mg suspension po qid  
Label: Keflex, reconstituted with 62 mL H<sub>2</sub>O, 5 mL = 250 mg.  
Give \_\_\_\_\_ mL
- 13 Order: Morphine grains ss po q 3 to 4 h prn pain  
Supply: Morphine grains 1/8 tab  
Give \_\_\_\_\_ tab each dose
- 14 Ordered: Lanoxin 0.75 mg IV push  
Supply: Lanoxin 0.25 mg / mL  
Give: \_\_\_\_\_ mL
- 15 Ordered: ASA grains XV po q 3 to 4 h  
prn, temp > 101 F  
Supply: ASA grains X tabs  
Give \_\_\_\_\_ each dose.
- 16 Order: Robaxin 1 g po tid  
Supply: Robaxin 500 mg scored tabs  
Give \_\_\_\_\_
- 17 Ampicillin 750 mg IM q6h is ordered. Available is 1 g in powdered form. Add 1.5 mL sterile H<sub>2</sub>O. Each mL will contain 500 mg. Give \_\_\_\_\_ mL at each dose?
- 18 Ordered: MS grains iss po q 4-6 h prn pain Supply: MS grains 1/2 tab  
Give \_\_\_\_\_ each dose?
- 19 Ordered: Chloral Hydrate 1 g po  
Have: Chloral Hydrate gr 7 1/2 caps  
How many capsules will you give? -----
- 20 Dr. Jones has ordered Phenobarbital Sodium 300 mg IM. The bottle is labeled Phenobarbital Sodium gr XV / 5 mL. How many mL will you give? \_\_\_\_\_
- 21 Morphine Sulfate gr 1/10 is ordered IV for chest pain. You have Morphine Sulphate in a tubex containing gr 1/4 / 2 mL.  
How many mL would you give? \_\_\_\_\_
- 22 Iron dextran is available for injection in 50 mg/mL vials. An order for 150 mg IV daily is written. How much will you give in mL? \_\_\_\_\_
- 23 A physician orders 500,000 units IM of Penicillin. The vial label reads: Add 8.2 mL of NS to this vial to yield 300,000 units / mL. How many mL will you give? \_\_\_\_\_

- 24 Ordered: Streptokinase 1.5 million units IV drip  
Supply: Streptokinase 500,000 units / 2 mL  
Give \_\_\_\_\_ mL
- 25 Ordered: Aqueous Penicillin 500,000 units  
Supply: Aqueous Penicillin I g vial. Directions on vial read: Add 3.4 mL diluent to yield 250,000 units / mL.  
Give \_\_\_\_\_
- 26 Ordered: Penicillin G 500,000 units IM.  
Penicillin G 1 million units / 10 mL.  
How many mL will you give? \_\_\_\_\_
- 27 Ordered: Heparin 6,500 units subQ  
Have: Heparin 10,000 units / mL.  
Give \_\_\_\_\_
- 28 Ordered: PCN 625,000 units IM  
Supply: PCN I g vial. Directions on vial read: Add 5 mL NS to yield 125,000 units / mL.  
Give \_\_\_\_\_ mL
- 29 Ordered: PCN 750,000 units IM daily X 3 days  
Supply: PCN 2 g vial. Directions on vial read: Add 1.8 mL NS to yield 500,000 units / 2 mL.  
Give \_\_\_\_\_.
- 30 Basogel 20 mL is ordered po pc & at bedtime for Mr. Jones at home. How many teaspoons should Mrs. Jones give her husband for each dose? \_\_\_\_\_
- 31 Dilantin 750 mg IV push is ordered STAT. The PDR advises to administer this drug at a rate of 25 to 50 mg per minute. What is the least amount of time you would take to give this med.? \_\_\_\_\_
- 32 Nafcillin sodium 750 mg q4h is ordered. The drug is delivered in a 1 g vial with instructions to dilute with 50 mL of sterile water for injection and to give over 10 minutes. The resulting solution yields 20 mg/mL. Give \_\_\_\_\_ per dose.
- 33 A 200 mL bottle of 10% intralipids is to run over 12 hours. 20 gtts = 1 mL. Administer at \_\_\_\_\_ gtt / min.
- 34 Ordered: D5 1/2 NS at 75 mL / h  
Drop factor: 20 gtts / mL  
Deliver at \_\_\_\_\_ gtts/min
- 35 Ordered: RBCs (250 mL) to infuse in 2 hours. Drop factor: 10 gtts / 1 mL. How many gtts / min? \_\_\_\_\_

- 36 Ordered: IV D5  $\frac{1}{4}$  NS with 40 mEq KCL to run at 175 mL / h. The bag has 550 mL remaining. 10 gtts = 1 mL. How many gtts / min? \_\_\_\_\_
- 37 Order: 250 mL NS to run over 5 h.  
Drop factor: 60 gtts / mL  
Deliver at \_\_\_\_\_ gtts / min
- 38 Tobramycin 80 mg is added to 100 mL D5W. It is to infuse over 20 minutes. 15 gtts = 1 mL. How many gtts/min? \_\_\_\_\_
- 39 At 12 noon an IV that was previously infiltrated is restarted with 700 mL remaining in the bag. The IV is to be completed at 7 pm. Drop factor: 10 gtts / mL. At what rate would you set this IV? \_\_\_\_\_gtts / min
- 40 250 mL NS to run at KVO of 7 mL / hr. Drop factor: 60 gtts = 1 mL, How many gtts / min? \_\_\_\_\_
- 41 At 2 pm an IV was started with 1,000 mL in the bag. The IV is to be completed by 12 midnight. Drop factor: 30 gtts / mL. At how many gtts/min would you set this IV? \_\_\_\_\_
- 42 Ampicillin 500 mg is mixed in 100 mL D5W. Label reads to infuse over  $\frac{2}{3}$  h. 10 gtts / 1 mL. How many drops per minute?
- 43 You have an order for D5RL at 125 mL / h. Drop factor: 15 gtts / mL. Calculate the drips / minute.  
\_\_\_\_\_
- 44 Ordered: D5NS at 150 mL / h  
Drop factor: 20 gtt / mL  
Deliver at \_\_\_\_\_ gtts / min
- 45 At 2 pm an IV was restarted with 750 mL left in the bag. The physician ordered the rate at 90 mL/h. Drop factor: 10 gtts / mL. At what gtts/min would you set this IV? \_\_\_\_\_
- 46 Infuse 600 mL D5  $\frac{1}{2}$  NS with 15 mEq KCL over 8 h. Drop factor: 20 gtts / mL. Deliver \_\_\_\_\_ gtts / min.
- 47 Ampicillin 1 g in 100 mL D5W is to infuse over 45 min via pump. At what rate do you set the pump in mL/hr?  
\_\_\_\_\_

- 48 Vancomycin 500mg is diluted in 200 mL of 0.9% NS and is to infuse over 1 ½ hours. At what rate do you set the IV pump in mL per hour? \_\_\_\_\_
- 49 Ordered: Ritalin 0.75 mg per kg. for a child weighing 88 lb.  
Give \_\_\_\_\_.
- 50 Ordered: Carbenicillin sodium 100 mg / kg / day IM in equally divided doses qid. The child weighs 11 kg. How much do you give a 9 a.m.? \_\_\_\_\_
- 51 A 5 year old child is to receive gr 1/10 / kg of a drug. The child weighs 44 #. The bottle reads gr 1 per 5 mL. He should receive \_\_\_\_\_
- 52 A drug is given at 0.2 mg / kg of body weight. The child weighs 66 #. He should receive \_\_\_\_\_ mg
- 53 Tobramycin is ordered for a child weighing 35 #. Administer this medication at 25 mg / kg / day. This is to be given q 6 h around-the-clock. How many mg. will you give at 6 am? \_\_\_\_\_
- 54 Ordered: Digoxin. PDR instructions: 0.0045 mg / kg / daily.  
Child's weight: 52 lb. Give \_\_\_\_\_ mg. daily.
- 55 Depatkene is ordered for a child with myoclonic partial seizures. The order reads: administer Depatkene at 15 mg / kg / day in 3 equally divided doses. The child weighs 55 #. How many mg will you administer at 8 am? \_\_\_\_\_
- 56 Nipride is ordered for a child weighing 15.4 kg. The recommended dose for this drug is 30 mg / kg / day. This is to be given in equally divided doses q 8 hours around-the-clock.  
The 9 am dose should contain \_\_\_\_\_.
- 57 The physician orders Dynamo for a child weighing 9 pounds. The recommended dose is 20 mg / kg / dose. Administer \_\_\_\_\_ mg at 9 am.
- 58 The physician orders Mitrozol for a child weighing 16 pounds 8 ounces. The recommended dose is 6 mg / kg / day. This child should receive \_\_\_\_\_ mg / daily.
- 59 Azathioprine sodium is ordered in an initial dose of 5 mg / kg daily for an individual weighing 80 kg. Amount of mg in each dose? \_\_\_\_\_
- 60 Trocan is ordered for a child weighing 33 pounds. Administer this medication at 40 mg / kg / day. This is to be given in equally divided doses q 4 hours around-the-clock. How many mg will you administer at 8 am?  
\_\_\_\_\_

<b>Form</b>					
<b>A</b>					
<b>1</b>	0.5 tabs	<b>21</b>	0.8 mL	<b>41</b>	50 gtts/min
<b>2</b>	1.5 mL	<b>22</b>	3 mL	<b>42</b>	25 gtts/min
<b>3</b>	1.6 mL	<b>23</b>	1.7 mL	<b>43</b>	31 gtts/min
<b>4</b>	10 mL	<b>24</b>	6 mL	<b>44</b>	50 gtts/min
<b>5</b>	4 tabs	<b>25</b>	2 mL	<b>45</b>	15 gtts/min
<b>6</b>	0.5 tabs	<b>26</b>	5 mL	<b>46</b>	25 gtts/min
<b>7</b>	90 mg	<b>27</b>	0.65 mL	<b>47</b>	133.3 mL
<b>8</b>	0.25 mL	<b>28</b>	5 mL	<b>48</b>	133.3 mL
<b>9</b>	2 mL	<b>29</b>	3 mL	<b>49</b>	30 mg
<b>10</b>	0.5 mL	<b>30</b>	4 tsp	<b>50</b>	275 mg
<b>11</b>	15 mL	<b>31</b>	15 min.	<b>51</b>	10 mL
<b>12</b>	10mL	<b>32</b>	37.5 mL	<b>52</b>	6 mg
<b>13</b>	4 tab	<b>33</b>	6 gtts/min	<b>53</b>	99.4 mg
<b>14</b>	3 mL	<b>34</b>	25 gtts/min	<b>54</b>	0.106 mg
<b>15</b>	1.5 tabs	<b>35</b>	21 gtts/min	<b>55</b>	125 mg
<b>16</b>	2 tabs	<b>36</b>	29 gtts	<b>56</b>	154 mg
<b>17</b>	1.5 mL	<b>37</b>	50 gtts/min	<b>57</b>	82 mg
<b>18</b>	3 tabs	<b>38</b>	75 gtts	<b>58</b>	45 mg
<b>19</b>	2 caps	<b>39</b>	17 gtts/min	<b>59</b>	400 mg
<b>20</b>	1.7 mL	<b>40</b>	7 gtts	<b>60</b>	100 mg

\* Method used must correspond to answer.