

Math 1020 Exam #4 Sample Fall 2012

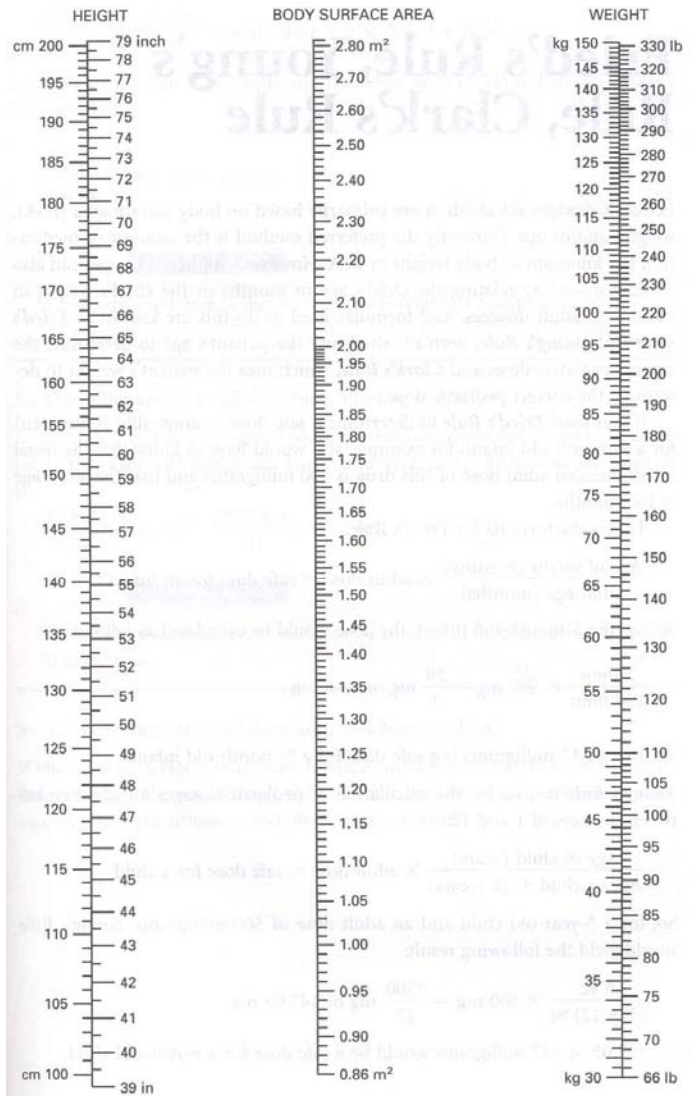
Name:

Part I: No electronic devices, books, or notes are allowed.

1. Use the following nomogram to find the body surface area of a patient who is 5 feet 6 inches tall and weighs 106 pounds. Round the answer to 2 decimal places with an appropriate unit.

2. Use the following nomogram to find the body surface area of a patient who is 135 cm tall and weighs 45 kg. Round the answer to 2 decimal places with an appropriate unit.

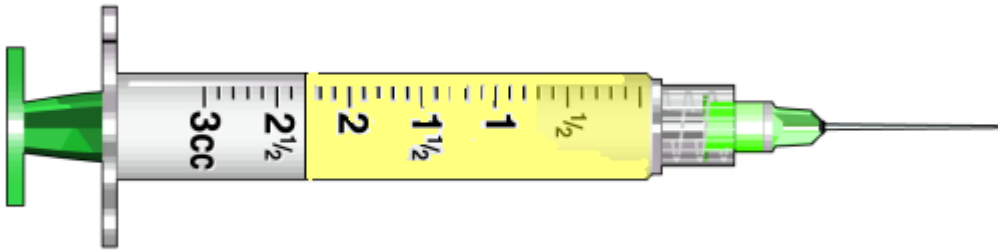
ADULT NOMOGRAM



3. What are the dosage and units in the following syringe?



4. What are the dosage and units in the following syringe?



Determine if each ordered amount is an overdose. If it is not, find how many pills or mL are needed. State the unit of measurement.

5. Ordered: Chloroquine hydrochloride 150 mg IM tid.
 On hand: Chloroquine hydrocholride 100 mg/mL. The maximum dosage is 400 mg qd.
 Calculate the amount to administer. Is the dose safe?

<p>6. For the given label, what is the:</p> <ol style="list-style-type: none"> Trade name Generic name Total amount of medicine in container with appropriate unit strength 	
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<p>7. The abbreviation for <i>both ears</i> is _____.</p>	<p>8. The abbreviation for <i>subcutaneous</i> is _____.</p>
<p>9. BID means _____.</p>	<p>10. The abbreviation for <i>right eye</i> is _____.</p>
<p>11. qod means _____.</p>	<p>12. The abbreviation for <i>with</i> is _____.</p>
<p>13. IV means _____.</p>	<p>14. The abbreviation for <i>after meals</i> is _____.</p>

Part II: Students may use a calculator that does not connect to the internet or store information. No other electronic devices, books, or notes are allowed. Answer all questions. Do it by yourself.

Determine if each ordered amount is an overdose. If it is not, find how many pills or mL are needed. State the unit of measurement.

15. Ordered: Neupogen 150 mcg SC daily.

On hand: a vial containing 480 mcg/1.2 mL.

Calculate the amount to administer.

16. Ordered: 1.2 g PO q4h.

On hand: 800 mg tablets.

The amount to administer is _____.

17. Ordered: Amoxil 0.80 g PO q6h.

On hand: 500 mg/mL elixir.

The amount to administer is _____.

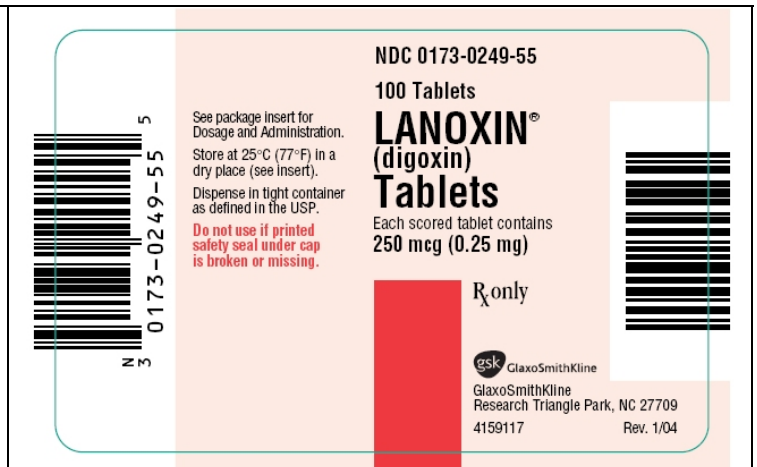
18. The prescription states: Cleocin 5 mg/kg IV qid. The drug label states: Cleocin 75 mg/5 mL and the maximum dosage is 450 mg q6h. The patient weighs 245 lb. Is the dose safe? How much to administer?

19. Use the formula $BSA = \sqrt{\frac{np}{3131}} m^2$ to calculate the BSA of a patient weighing 164 pounds and is 5 feet 7 inches tall.

20. Determine if the dose is safe, if so, calculate the amount to administer. The prescription states Cerubidine 25 mg/m²/ IV every week. The label states Cerubidine for injection. When reconstituted, each milliliter contains 5 mg of drug. The recommended pediatric dosage is 25 mg/m² IV the first day every week. The patient is 48 cm tall and weight 8 kg and the formula for

BSA is $BSA = \sqrt{\frac{ck}{3600}} m^2$.

21. The prescription states Digoxin 0.125 mg PO daily. Refer to the label to determine the amount to administer.



22. The prescription states 45 mg po qam. The label states Oral suspension containing 180 mg per 12 mL. What is the desired dose?

23. The prescription states Levoxyl 0.25 mg PO daily. The label states Levoxyl 1 tab = 125 mcg. What is the desired dose?