

ADULT  
Copy

Clinical module 3  
Sample calculation test  
September 2005

Question 1	Please use this column to show working out	
(a) 0.5 grams equals how many milligrams ?		Answer
(b) 0.25 micrograms equals how many nanograms		Answer
(c) Convert 500mL to litres		Answer

Question 2

Please calculate the total fluid intake from 0800 - 1600							Answer	
Time	By mouth		Intravenous or other routes		Urine	Faeces		Vomit mL
	Amount mL	type	Amount mL	Type				
0800	200	tea	'0'	No 1	125			
0900					65			
1000	150	water			35			
1100					30			
1200	300	Soup and milk	500 '0'	No 1 NO 2	45			
1300					50			
1400	100	tea			60			
1500					75			
1600	200	water	425 '0'	NO 2 No 3	70			
1700	100	juice			80			
1800	150	water			60			

**Question 3**

<p>A patient has Renal failure and has a daily allowance of 1500mL. He has taken 300mL. What percentage of his total intake does this represent?</p>		<b>Answer</b>
--	--	---------------

**Question 4**

<p>A patient requires 100mcg of Digoxin elixir. The elixir preparation contains 50 micrograms / mL. How many mL are required?</p>		<b>Answer</b>
---	--	---------------

**Question 5**

<p>A patient is prescribed Bumetanide 1mg orally. The stock dose is 200 micrograms/mL. What volume of Bumetanide is required?</p>		<b>Answer</b>
---	--	---------------

**Question 6**

<p>A patient is prescribed 750mg of ciprofloxacin. The stock dose is 250mg tablets. How many tablets will you administer?</p>		<b>Answer</b>
---	--	---------------

**Question 7**

<p>A patient is prescribed Furosemide 60 milligrams Stock available is 40mg, 20mg and 80mg. Choose the best combination of tablets for the prescription</p>		<b>Answer</b>
---	--	---------------

**Question 8**

<p>A patient is prescribed an injection of morphine 8 mg.</p> <p>The ampoule contains 10mg in 1 mL</p> <p>What volume is drawn up for injection?</p>		<b>Answer</b>
--	--	---------------

**Question 9**

<p>A patient is prescribed 5mg of Salamol to be given by nebuliser.</p> <p>The medication is available as 2.5mg / 2mL ampoule.</p> <p>How many ampoules are required</p>		<b>Answer</b>
--	--	---------------

**Question 10**

<p>Heparin 2000 units is prescribed.</p> <p>The stock ampoule is 5000 units per mL.</p> <p>How many mL should be administered?</p>		<b>Answer</b>
--	--	---------------

**Question 11**

<p>A 66kg adult requires Enoxaparin 1.5mg / kg for treatment of a DVT.</p> <p>What dose is required?</p>		<b>Answer</b>
--	--	---------------

**Question 12**

<p>A patient requires 25,000 units of heparin</p> <p>Stock on hand is 10,000 units in 1mL</p> <p>What volume will you need to draw up?</p>		<b>Answer</b>
--	--	---------------

**Question 13**

A 63 kg man requires Atenolol via IV infusion.

The dose is 150micrograms/kg.

Atenolol injection is available in a 10ml ampoule.

How many millilitres of Atenolol are required to make up the infusion?

**Answer**

**Answer**

**Question 14**

You need to make up a 900mg infusion of Amiodarone.

Amiodarone is available as 3mL ampoules containing 150mg per mL.

How many mL of Amiodarone will you need?

**Answer**

**Question 15**

A patient requires co-trimoxazole 1.44G to be given Intra-venously.

Each ampoule contains 480mg of co-trimoxazole.

How many ampoules are required to prepare the dose?

**Answer**

**Question 16**

Please calculate the number of mL per hour that the following intravenous infusion would be set.

3000 mL of Parenteral Nutrition over 24 hours

<p>A 63 kg man requires Atenolol via IV infusion.</p> <p>The dose is 150micrograms/kg.</p> <p>Atenolol injection is available in a 10ml ampoule.</p> <p>How many millilitres of Atenolol are required to make up the infusion?</p> <p><b>Answer</b></p>		<p><b>Answer</b></p>
---	--	----------------------

<p>You need to make up a 900mg infusion of Amiodarone.</p> <p>Amiodarone is available as 3mL ampoules containing 150mg per mL.</p> <p>How many mL of Amiodarone will you need?</p>		<p><b>Answer</b></p>
--	--	----------------------

<p>A patient requires co-trimoxazole 1.44G to be given Intra-venously.</p> <p>Each ampoule contains 480mg of co-trimoxazole.</p> <p>How many ampoules are required to prepare the dose?</p>		<p><b>Answer</b></p>
---	--	----------------------

<p>Please calculate the number of mL per hour that the following intravenous infusion would be set.</p> <p>3000 mL of Parenteral Nutrition over 24 hours</p>		
--	--	--

**Question 19**

<p>Please calculate the mL per hour that the infusion pump should be set at.</p> <p>A patient is prescribed 500mL of 0.9% Sodium Chloride over 8 hours</p>		<b>Answer</b>
--	--	---------------

**Question 20**

<p>Please calculate the mL per hour that the infusion pump should be set at.</p> <p>1250 mL Parenteral Nutrition over 24 hours</p>		<b>Answer</b>
--	--	---------------