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Calculate the following dosages using the formula method:

1.

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ORDER: Apo-ibuprofen 800 mg po qid

D/H X Q = x
800 mg/400 mg X 1 tab = x
2 tab = x

CHECK: D:X = H:Q

800:2 = 400:1

2X400 = 800X1
800=800

2.

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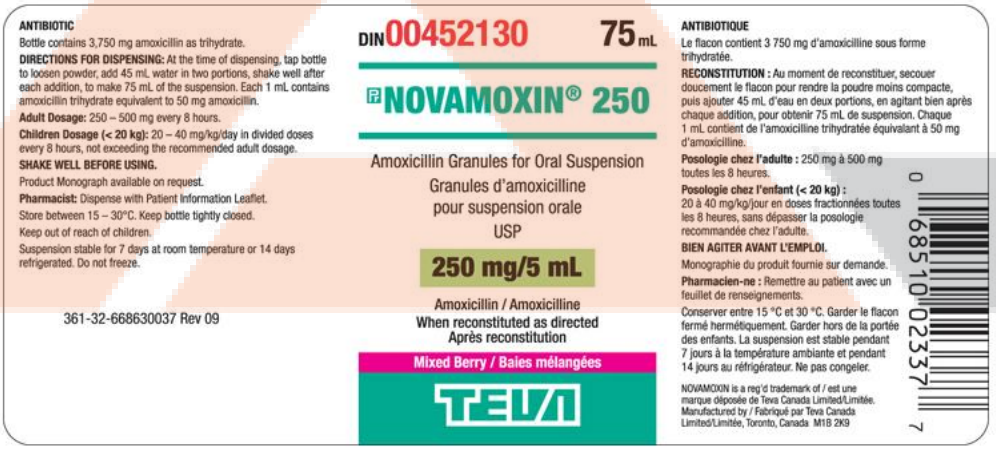
ORDER: Lipitor 20 mg po daily hs

D/H x Q = x
20mg/10mg x 1tab = x
2 tab = x

CHECK
D:X = H:Q
20:2=10:1
20x1=10x2
20=20
3.



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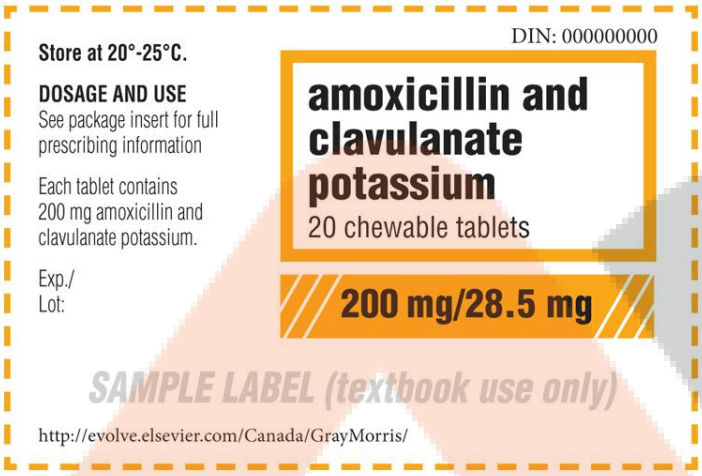
ORDER: Novamoxin 500 mg q8h times 3 days
D/H x Q = x
500mg/250mg x 5mL = x
10 mL = x

D:X=H:Q
500:10=250:5
500x5 = 250x10
2500 = 2500

4.



Order: Amoxicillin and clavulanate potassium chewable 200 mg po qid times 4 days

D/H x Q = x
200mg/200mg x 1 tablet = x
1 tablet = x

D:x = H:Q
200:1 = 200:1
200 x 1 = 200 x1
200=200

5. The physician orders heparin 45 000 units IV in 500 mL D5W. The automated dispensing unit (ADU) stocks 10 000 units/10 mL vials. How many mL would you add to the Intravenous?

D/H x Q = x
45 000 units / 10 000 units x 10 mL = x
45 mL = x

D:x = H:Q
45 000:45 = 10 000:10
45 000 x 10 = 45 x 10 000
450 000 = 450 000

6. The ER physician orders digoxin 110 mcg IV q12h for an adolescent patient with uncontrolled atrial fibrillation. The vial in the automated dispensing unit (ADU) is labelled “digoxin 1 mg/mL”. ~~The nurse draws up 4.4 mL. Is this correct?~~

D/H x Q = x
110 mcg / 1 mg WRONG

110 mcg/ 1000mcg X 1mL = x

0.11 mL = x

No, she is not correct

D:x = H:Q
110: 0.11 = 1000 x 1
110 x 1 = 0.11x1000
110 = 110

7. A patient is ordered Diphenhydramine 35 mg IM q6H prn for itching. It is available in 50 mg/mL. How many mL per dose?

D/H x Q = x
35mg/50mg x 1mL = x
0.7 mL

D:X = H:Q
35:0.7= 50:1
35x1 = 0.7x50
35=35

8. A patient is prescribed ondansetron (Zofran) 3mg IV for post-operative nausea and vomiting. The medication is available in 2 mg per mL. How many mL should the nurse administer?

D/H x Q = x
3mg/2mg x 1mL = x
1.5mL = x

D:X = H:Q
3:1.5=2:1
3x1=1.5x2
3=3

9. You dilute 10 mg/mL of Morphine in 9 mL of normal saline for a total of 10 mLs. You want to administer 2.5 mg. How many mLs do you administer?

D/H x Q = x
2.5mg/10mg x 10mL = x
2.5 mL = x

D:X = H:Q
2:5:2.5 = 10:10
2.5x10 = 2.5x10
25=25

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