Chamberlain University Medication Calculation Practice Workbook

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NR226: Fundamentals Skills: Questions

1. The client has an order for amoxicillin 0.6 g orally. The medication available is amoxicillin 300 mg/5 mL. How many mL will the nurse administer? _ mL (If needed, round to the nearest whole number.)

2. The client has an order for atropine 450 mcg subcutaneously. The medication available is atropine 1mg/0.4 mL. How many mL will the nurse administer? _ mL (If needed, round to the nearest tenth.)

3. The client has an order for cephalexin 750 mg orally. The medication available is cephalexin 125 mg/10 mL. How many mL will the nurse administer? __ mL (If needed, round to the nearest whole number.)

4. The client has an order for cyanocobalamin 225 mcg subcutaneously. The medication available is cyanocobalamin 0.4 mg/mL. How many mL will the nurse administer? _____ mL (If needed, round to the nearest tenth.)

5. The healthcare provider ordered cyclosporine IV 3 mg/kg/day. The client weighs 132 lbs. How many mg will the nurse administer each day? __ mg (If needed, round to the nearest whole number.)

6. The client has an order for digoxin 0.6 mg IVP. The medication available is digoxin 100 mcg/0.5mL. How many mL will the nurse administer? ___ mL (If needed, round to the nearest tenth.)

7. The client has an order for digoxin 122.5 mcg orally. The medication available is digoxin 0.225mg/scored tablet. How many tablets will the nurse administer? __ tablet(s) (If needed, round to the nearest tenth.)

8. The client has an order for diphenhydramine 25 mg orally. The medication available is diphenhydramine 5 mg/1 mL. How many mL will the nurse administer? _____ mL (If needed, round to the nearest whole

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NR226: Fundamentals Skills: Questions

number.)

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NR226: Fundamentals Skills: Questions

9. The healthcare provider ordered enoxaparin 1mg/kg subcutaneously. The medication available is enoxaparin 80 mg/mL. The client weighs 260 lbs. How many mL will the nurse administer? ____ mL (If needed, round to the nearest tenth.)

10. The client has an order for fluvastatin 75 mg orally. The medication available is fluvastatin 15 mg/capsule. How many capsules will the nurse administer? _____ capsule(s) (If needed, round to the nearest whole number.)

11. The client has an order for furosemide 40 mg IVP. The medication available is furosemide 5 mg/mL. How many mL will the nurse administer? _ mL (If needed, round to the nearest tenth.)

12. The client has an order for gabapentin 300 mg orally. The medication available is gabapentin 250 mg/5 mL. How many mL will the nurse administer? __ mL (If needed, round to the nearest tenth.)

13. The client has an order for hydrochlorothiazide 6 mg orally. The medication available is hydrochlorothiazide 12 mg/scored tablet. How many tablets will the nurse administer? tablet(s) (If needed, round to the nearest tenth.)

14. The client has an order for meperidine 50 mg IM. The medication available is meperidine 100 mg/2mL. How many mL will the nurse administer? mL (If needed, round to the nearest tenth.)

15. The client has an order for metformin 0.25g orally. The medication available is metformin 250 mg/scored tablet. How many tablets will the nurse administer? _____ tablet(s) (If needed, round to the nearest whole number.)

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NR226: Fundamentals Skills: Questions

16. The client has an order for morphine 20 mg orally. The medication available is morphine 5 mg/5mL. How many teaspoons will the nurse administer? _ tsp (If needed, round to the nearest whole number.)

17. The client has an order for potassium 60 mEq orally. The medication available is potassium 20 mEq/scored tablet. How many tablets will the nurse administer? _____ tablet(s) (If needed, round to the nearest tenth.)

18. The client has an order for potassium 20 mEq orally. The medication available is potassium 10 mEq/2mL. How many mL will the nurse administer? _ mL (If needed, round to the nearest tenth.)

19. The client has an order for sulfasalazine 2.5 g orally. The medication available is sulfasalazine 200 mg/scored tablet. How many tablets will the nurse administer? _____ tablet(s) (If needed, round to the nearest tenth.)

20. The client has an order for tolbutamide 0.6 g orally. The medication available is tolbutamide 300 mg/scored tablet. How many tablets will the nurse administer? _____ tablet(s) (If needed, round to the nearest whole number.)

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NR226: Fundamentals Skills: Answers

1. The client has an order for amoxicillin 0.6 g orally. The medication available is amoxicillin 300 mg/5 mL. How many mL will the nurse administer? **10** mL (If needed, round to the nearest whole number.)

5 mL	1,000 mg	0.6 g	3,000	10
300 mg	1 g		300	

2. The client has an order for atropine 450 mcg subcutaneously. The medication available is atropine 1mg/0.4 mL. How many mL will the nurse administer? **0.2** mL (If needed, round to the nearest tenth.)

0.4 mL	1 mg	450 mcg	180	0.18 = 0.2
1 mg	1,000 mcg		1,000	

3. The client has an order for cephalexin 750 mg orally. The medication available is cephalexin 125 mg/10 mL. How many mL will the nurse administer? **60** mL (If needed, round to the nearest whole number.)

10 mL	750 mg	7,500	60
125 mg		125	

4. The client has an order for cyanocobalamin 225 mcg subcutaneously. The medication available is cyanocobalamin 0.4 mg/mL. How many mL will the nurse administer? **0.6** mL (If needed, round to the nearest tenth.)

1 mL	1 mg	225 mcg	225	0.5625 = 0.6
0.4 mg	1,000 mcg		400	

5. The healthcare provider ordered cyclosporine IV 3 mg/kg/day. The client weighs 132 lbs. How many mg will the nurse administer each day? **180** mg (If needed, round to the nearest whole number.)

3 mg	1 kg	132 lb	396	180
kg/day	2.2 lb		2.2	

6. The client has an order for digoxin 0.6 mg IVP. The medication available is digoxin 100 mcg/0.5mL. How many mL will the nurse administer? **3** mL (If needed, round to the nearest tenth.)

0.5 mL	1,000 mcg	0.6 mg	300	3
100 mcg	1 mg		100	

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NR226: Fundamentals Skills: Answers

7. The client has an order for digoxin 122.5 mcg orally. The medication available is digoxin 0.225mg/scored tablet. How many tablets will the nurse administer? **0.5** tablet(s) (If needed, round to the nearest tenth.)

1 tablet	1 mg	122.5 mcg	122.5	0.54 = 0.5
0.225 mg	1,000 mcg		225	

8. The client has an order for diphenhydramine 25 mg orally. The medication available is diphenhydramine 5 mg/1 mL. How many mL will the nurse administer? **5** mL (If needed, round to the nearest whole number.)

1 mL	25 mg	25	5
5 mg		5	

9. The healthcare provider ordered enoxaparin 1 mg/kg subcutaneously. The medication available is enoxaparin 80 mg/mL. The client weighs 260 lbs. How many mL will the nurse administer? **1.5** mL (If needed, round to the nearest tenth.)

1 mL	1 mg	1 kg	260 lb	260	1.48 = 1.5
80 mg	kg	2.2lb		176	

10. The client has an order for fluvastatin 75 mg orally. The medication available is fluvastatin 15 mg/capsule. How many capsules will the nurse administer? **5** capsule(s) (If needed, round to the nearest whole number.)

1 capsule	75 mg	75	5
15 mg		15	

11. The client has an order for furosemide 40 mg IVP. The medication available is furosemide 5 mg/mL. How many mL will the nurse administer? **8** mL (If needed, round to the nearest tenth.)

1 mL	40 mg	40	8
5 mg		5	

12. The client has an order for gabapentin 300 mg orally. The medication available is gabapentin 250 mg/5 mL. How many mL will the nurse administer? **6** mL (If needed, round to the nearest tenth.)

5 mL	300 mg	1500	6
250 mg		250	

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NR226: Fundamentals Skills: Answers

13. The client has an order for hydrochlorothiazide 6 mg orally. The medication available is hydrochlorothiazide 12 mg/scored tablet. How many tablets will the nurse administer? **0.5** tablet(s) (If needed, round to the nearest tenth.)

1 tablet	6 mg	6	0.5
12 mg		12	

14. The client has an order for meperidine 50 mg IM. The medication available is meperidine 100 mg/2mL. How many mL will the nurse administer? **1** mL (If needed, round to the nearest tenth.)

2 mL	50 mg	100	1
100 mg		100	

15. The client has an order for metformin 0.25g orally. The medication available is metformin 250 mg/scored tablet. How many tablets will the nurse administer? **1** tablet(s) (If needed, round to the nearest whole number.)

1 tablet	1,000 mg	0.25 g	250	1
250 mg	1 g		250	

16. The client has an order for morphine 20 mg orally. The medication available is morphine 5 mg/5mL. How many teaspoons will the nurse administer? **4** tsp (If needed, round to the nearest whole number.)

1 tsp	5 mL	20 mg	100	4
5 mL	5 mg		25	

17. The client has an order for potassium 60 mEq orally. The medication available is potassium 20 mEq/scored tablet. How many tablets will the nurse administer? **3** tablet(s) (If needed, round to the nearest tenth.)

1 tablet	60 mEq	60	3
20 mEq		20	

18. The client has an order for potassium 20 mEq orally. The medication available is potassium 10 mEq/2mL. How many mL will the nurse administer? **4** mL (If needed, round to the nearest tenth.)

2mL	20mEq	40	4
10mEq		10	

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NR226: Fundamentals Skills: Answers

19. The client has an order for sulfasalazine 2.5 g orally. The medication available is sulfasalazine 200 mg/scored tablet. How many tablets will the nurse administer? **12.5** tablet(s) (If needed, round to the nearest tenth.)

1 tablet	1,000mg	2.5g	2,500	12.5
200mg	1g		200	

20. The client has an order for tolbutamide 0.6 g orally. The medication available is tolbutamide 300 mg/scored tablet. How many tablets will the nurse administer? **2** tablet(s) (If needed, round to the nearest whole number.)

1 tablet	1,000mg	0.6g	600	2
300mg	1g		300	

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NR324 (329CA): Adult Health I: Questions

1. The client has an order for 0.9% sodium chloride 2 L to infuse over 12 hours. At what rate will the nurse set the infusion? __ mL/hr (If needed, round to the nearest whole number.)

2. The healthcare provider ordered 2 L of D5W to infuse at 140 mL/ hr. The available tubing delivers 10 gtt/mL. At what rate will the nurse set the infusion? ___ gtt/min (If needed, round to the nearest whole number.)

3. The healthcare provider ordered 750 mL of 0.45% sodium chloride to infuse over 6 hours. The available tubing delivers 10 gtt/mL. At what rate will the nurse set the infusion? _ gtt/min (If needed, round to the nearest whole number.)

4. The client has an order for amoxicillin 400 mg orally. The medication available is 250 mg/5 mL. How many mL will the nurse administer? __ mL (If needed, round to the nearest tenth.)

5. The client has an order for ceftriaxone 250 mg intramuscularly every 12 hours. The medication available is 0.5 g/mL. How many mL will the nurse administer for each dose? _____ mL (If needed, round to the nearest tenth.)

6. The client has an order for erythromycin 750 mg orally. The medication available is 200 mg/5 mL. How many mL will the nurse administer? ___ mL (If needed, round to the nearest whole number.)

7. The client has an order for glyburide 5 mg orally. The medication available is 2.5 mg per scored tablet. How many tablets will the nurse administer? _ tablet(s) (If needed, round to the nearest tenth.)

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NR324 (329CA): Adult Health I: Questions

8. The client has an order for heparin IV push 10,000 units every 12 hours. The medication available is 5,000 units/5 mL. How many mL will the nurse administer for each dose? _____ mL (If needed, round to the nearest whole number.)

9. The client has an order for ketorolac 15 mg IV every 8 hours. The medication available is 30 mg/mL. How many mL will the nurse administer for each dose? ____ mL (If needed, round to the nearest tenth.)

10. The client has an order for Lactated Ringers 750 mL to infuse over 6 hours. At what rate will the nurse set the infusion? __ mL/hr (If needed, round to the nearest whole number.)

11. The client has an order for Lactated Ringers 1500 mL to infuse over 12 hours. At what rate will the nurse set the infusion? __ mL/hr (If needed, round to the nearest whole number.)

12. The client has an order for octreotide 80 mcg subcutaneously every 8 hours. The medication available is octreotide 100 mcg/mL. How many mL will the nurse administer for each dose? _____ mL (If needed, round to the nearest tenth.)

13. The client has an order for potassium chloride 10 mEq twice daily orally. The medication available is 40 mEq/15 mL. How many mL will the nurse administer for each dose? ____ mL (If needed, round to the nearest tenth.)

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NR324 (329CA): Adult Health I: Questions

14. The client has an order for potassium chloride 30 mEq in 1 L D5 0.9% sodium chloride to infuse at 1 mEq/hr. At what rate will the nurse set the infusion? __ mL/hr (If needed, round to the nearest whole number.)

15. The client has an order for quinapril 70 mg orally. The medication available is 20 mg per scored tablet. How many tablets will the nurse administer? _ tablet(s) (If needed, round to the nearest tenth.)

16. The client has an order for rosuvastatin 40 mg orally. The medication available is 10 mg per scored tablet. How many tablets will the nurse administer? tablet(s) (If needed, round to the nearest tenth.)

17. The client has an order for amphotericin B IV 200 mg in 750 mL D5W to infuse over 4 hours. At what rate will the nurse set the infusion? __ mL/hr (If needed, round to the nearest whole number.)

18. The healthcare provider ordered cefazolin 1 g in 250 mL D5W to infuse over 60 minutes. The available tubing delivers 15 gtt/mL. At what rate will the nurse set the infusion? _ gtt/min (If needed, round to the nearest whole number.)

19. The healthcare provider ordered metronidazole 500 mg in 250 mL to infuse over 90 minutes. The available tubing delivers 15 gtt/mL. At what rate will the nurse set the infusion? _____ gtt/min (If needed, round to the nearest whole number.)

20. The client has an order for packed red blood cells 380 mL to infuse over 4 hours. At what rate will the nurse set the infusion? _____ mL/hr (If needed, round to the nearest whole number.)

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NR324 (329CA): Adult Health I: Answers

1. The client has an order for 0.9% sodium chloride 2 L to infuse over 12 hours. At what rate will the nurse set the infusion? **167** mL/hr (If needed, round to the nearest whole number.)

1000 mL	2 L	2,000	166.67 = 167
1 L	12 hr	12	

2. The healthcare provider ordered 2 L of D5W to infuse at 140 mL/ hr. The available tubing delivers 10 gtt/mL. At what rate will the nurse set the infusion? **23** gtt/min (If needed, round to the nearest whole number.)

10 gtt	140 mL	1 hr	1,400	23.33 = 23
1 mL	1 hr	60 minutes	60	

3. The healthcare provider ordered 750 mL of 0.45% sodium chloride to infuse over 6 hours. The available tubing delivers 10 gtt/mL. At what rate will the nurse set the infusion? **21** gtt/min (If needed, round to the nearest whole number.)

10 gtt	750 mL	1 hr	7,500	20.83 = 21
1 mL	6 hr	60 minutes	360	

4. The client has an order for amoxicillin 400 mg orally. The medication available is 250 mg/5 mL. How many mL will the nurse administer? **8** mL (If needed, round to the nearest tenth.)

5 mL	400mg	2,000	8
250 mg		250	

5. The client has an order for ceftriaxone 250 mg intramuscularly every 12 hours. The medication available is 0.5 g/mL. How many mL will the nurse administer for each dose? **0.5** mL (If needed, round to the nearest tenth.)

1 mL	1 g	250 mg	250	0.5
0.5 g	1,000 mg		500	

6. The client has an order for erythromycin 750 mg orally. The medication available is 200 mg/5 mL. How many mL will the nurse administer? **19** mL (If needed, round to the nearest whole number.)

5 mL	750 mg	3,750	18.75 = 19
200 mg		200	

7. The client has an order for glyburide 5 mg orally. The medication available is 2.5 mg per scored tablet. How many tablets will the nurse administer? **2** tablet(s) (If needed, round to the nearest tenth.)

1 tablet	5 mg	5	2
2.5 mg		2.5	

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NR324 (329CA): Adult Health I: Answers

8. The client has an order for heparin IV push 10,000 units every 12 hours. The medication available is 5,000 units/5 mL. How many mL will the nurse administer for each dose? **10** mL (If needed, round to the nearest whole number.)

5 mL	10,000 units	50,000	10
5,000 units		5,000	

9. The client has an order for ketorolac 15 mg IV every 8 hours. The medication available is 30 mg/mL. How many mL will the nurse administer for each dose? **0.5** mL (If needed, round to the nearest tenth.)

1 mL	15 mg	15	0.5
30 mg		30	

10. The client has an order for Lactated Ringers 750 mL to infuse over 6 hours. At what rate will the nurse set the infusion? **125** mL/hr (If needed, round to the nearest whole number.)

750 mL	125
6 hrs	

11. The client has an order for Lactated Ringers 1500 mL to infuse over 12 hours. At what rate will the nurse set the infusion? **125** mL/hr (If needed, round to the nearest whole number.)

1,500 mL	125
12 hours	

12. The client has an order for octreotide 80 mcg subcutaneously every 8 hours. The medication available is octreotide 100 mcg/mL. How many mL will the nurse administer for each dose? **0.8** mL (If needed, round to the nearest tenth.)

1 mL	80 mcg	80	0.8
100 mcg		100	

13. The client has an order for potassium chloride 10 mEq twice daily orally. The medication available is 40 mEq/15 mL. How many mL will the nurse administer for each dose? **3.8** mL (If needed, round to the nearest tenth.)

15 mL	10 mEq	150	3.75 = 3.8
40 mEq		40	

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