

Use the Answer Sheet to record your answers.

2. When documenting your answers:

~~X~~ For multiple choice questions, record the letter of your answer on the sheet

As applicable, record the vehicle (mg, mL, oz, etc.) with the answer.

Medication Math Packet #1

3. Place your answer sheet in box 1.

Due Date: 8/17/2021
Time: 1730

4. You can turn it in prior to the official due date.

Instructions - Page 2 required for this packet.

For MAC users:

Save the form in Rich Text Format (RTF) so I can open it. If needed, here are instructions. **When**

saving the completed Word document:

- a. Click on the "Save as Type" drop-down menu
- b. Click the "Save as Type" drop-down menu
- c. Click the "Rich Text Format" option. **d. Save**
- d. Save the file and place in the dropbox.

Answer Sheet – Name: Anian Tagle

1. B
2. D
3. C
4. 6 tsp, 2 Tbsp, 102
5. 84.5 kg
6. 2 C
7. 48.2 kg
8. 174 lbs
9. B
10. C
11. D
12. A
13. B
14. 900 mL
15. 1500 mg
16. 0.32 mL
17. 10.91 mL = 11 mL / NO
18. 10 mL
19. 0.875 L
20. 0.8 mL

Instructional Module 1 Medication Math Packet

1. A patient receives a 4 oz. bottle of cough syrup.

The instructions are to take 1 ½ teaspoons QID until finished.
How many days will the bottle last?

- A. 2 days B. 4 days C. 5 days D. 7 days

Use this information for Questions #2 and #3

Order: 750 mg of a medication to be given in 3 equal doses daily
Available: 125 mg/ 5 mL

2. How many mL of the medication should be given per dose?

- A. 3 mL B. 5 mL C. 7.5 mL D. 10 mL

3. How many mg of the drug should be given per dose?

- A. 125 mg B. 225 mg C. 250 mg D. 375 mg

Complete these conversions – Questions #4 to #8

4. 30 mL = 6 tsp / 2 Tbsp / 1 oz

5. 186 lb = 84.5 kg

6. 480 mL = 2 C

7. 150 lbs = 68.2 kg

8. 80 kg = 176 lbs

9. Available: Liquid medication - 250 mg/10 mL
How many mL contain 50 mg of this medication?

A. 1 mL B. 2 mL C. 3 mL D. 4 mL

Use this information for Questions #10 and #11

A patient is to take 2 teaspoons of a liquid medication every 6 hours x 8 days.

10. How many teaspoons per day?

A. 4 tsp B. 6 tsp C. 8 tsp D. 10 tsp

11. How many teaspoons at the end of 8 days?

A. 24 tsp B. 36 tsp C. 48 tsp D. 64 tsp

12. 30 mg = ___ g

0.03

A. 0.03 B. 0.030 C. 0.0003 D. 0.000030

13. 5 tsp = 25 mL

A. 20 B. 25 C. 50 D. 75

14. Calculate the fluid intake in mL for the items
3 oz. grape juice + 6 oz. broth + 9 oz. coffee + 12 oz. soft drink.

900 mL

15. Administer 1.5 g PO daily in three equal doses
What is the dosage in mg per dose?

1500 mg

16. Administer medication 2.5 mg PO daily

Available: medication 40 mg/5 mL

What is the dose in mL?

0.32 mL

17. Administer fluorouracil 6 mg/kg/day IV x 1 dose, not to exceed 800 mg per day

Available: 1 g/20 mL

The patient weighs 200 lbs

How many mL for the dose? Round to the nearest whole number

Is the dose within the limit for a daily dose?

10.91 mL → 11 mL and NO

18. Order: 500 mg PO daily

Available: 0.25 g/5 mL

What is the dose in mL?

10 mL

19. A patient's output for the 3 to 11 pm shift:

1500 Urine: 325 mL + Emesis: 75 mL

2100 Urine: 225 mL

2200 Nasogastric tube drainage: 200 mL

2300 Wound drain 50 mL of wound drainage

What is the amount in liters?

0.875 L

20. Administer chloral hydrate 200 mg X 1 dose

Available: chloral hydrate 250 mg/mL

What volume should be administered?

0.8 mL

1. 4oz cough syrup

$$102 = U + SD$$

1.5 tsp

$$402 = 24 + SD$$

4x a day

$$1.5 \times 4 = U$$

$$24 \cdot 1.5 = \textcircled{4}$$

$\frac{DV}{H}$

2. D: 750mg

$$\frac{(750\text{mg})(5\text{ml})}{125\text{mg}}$$

H: 125mg

$$30\text{ml}$$

V: 5ml

$$30\text{ml} / 3 \text{ doses} =$$

X:

$$\textcircled{10\text{ml}}$$

3. 750mg / 3 daily doses

$$\textcircled{250\text{mg}}$$

4. tsp Tbsp Oz Cup Pint

5ml

3tsp

2Tbsp

8oz

2c

15ml

6tsp

16Tbsp

16oz

30ml

48tsp

32Tbsp

240ml

96tsp

48Tbsp

$$30\text{ml} = 1\text{oz}$$

$$2\text{ Tbsp}$$

$$5. 186(16) / 2.2 = 84.54 \rightarrow 84.5$$

$$6. 1c = 240ml \div 480ml = \boxed{2 \text{ CUPS}}$$

$$7. 150lb \div 2.2 = 68.18 = 68.2$$

$$8. 80kg \times 2.2 = 176lb$$

9.

$$10. 2 \text{ tsp} \times 6 \times 8$$

$$24 \div 6 = 4 \times 2 = 8 \text{ tsp}$$

$$11. 8 \text{ tsp} \times 8 \text{ days} = 64 \text{ tsp}$$

$$12. 1g = 1000mg$$

$$30mg = 0.03g$$

$$13. 1 \text{ tsp} = 5ml$$

$$5 \text{ tsp} \times 5ml = 25ml$$

$$14. 102 = 30ml$$

$$302 = 90ml$$

$$602 = 180ml$$

$$902 = 270ml$$

$$1202 = 360ml$$

900ml

$$15. \quad 1g = 1000mg$$

$$1.5g = 1500mg$$

$$16. \quad \begin{array}{l} D: 2.5mg \\ H: 40mg \\ V: 5mL \\ X: \end{array} \quad \frac{(2.5mg)(5mL)}{40mg} = 0.3125 = 0.32mL$$

$$17. \quad \begin{array}{l} D: 545.5mg \\ H: 1000mg \\ V: 20mL \\ X: \end{array} \quad \frac{(545.5mg)(20mL)}{1000mg} = 10.91mL$$

$X: 545.5mg - \text{daily}$

$$1g = 1000mg \quad 200lb \cdot 2.2 = 440 \quad 440 \cdot 90.9 = 40000 \quad 40000 / 1000 = 40.9 \text{ kg}$$

$$18. \quad \begin{array}{l} D: 500mg \\ H: 250mg \\ V: 5mL \\ X: 10mL \end{array} \quad 1g = 1000mg \quad \frac{(500mg)(5mL)}{250mg} = 10mL$$

19.

20.

D: 200mg

H: 250mg

V: 1mL

X: 0.8mL

$$\frac{200\text{mg}}{250\text{mg}} \times 1\text{mL}$$