| Name: | Date: | |
|-------|-------|--|
| | | |

Questions cover work from chapter 1 thru 9. Show your work!!!!!

Identify the correct concentration from the following medicine bottles and tablets. Write your answers to the right of the label or bottle.

| NDC 0093-3147-01 1. New Product Appearance CEPHALEXIN Capsules USP 500 mg* B₂ only Image: Constraint of the second | | 2. NDC 0002-1031-02 TABLETS No. 1544 TABLETS, USP 15 mg |
|--|--|---|
| 100 CAPSULES | | WARNING—May be habit forming. |
| 3. | Compute the answers: a. 27.12 x 9.82 | b. 0.575 x 2.87 |
| | | |
| 4. | Compute the answers to two decimal | places: |
| | a. 25.025 ÷ 0.78 | b. 982.4 ÷ 1.31 |
| 5. | Convert the following to scientific not a. 12,435,000,000 | ation: x 10 |
| | b. 0.0001025 | x 10 |
| 6. | Convert the following to standard not c. 3.907 x 10 ⁷ d. 9.335 x 10 ⁻⁷ | ation: |
| 7. | Change to percent | |
| a. | 2 ¹ / ₈ | b. ⁵ / ₈ |
| c. | -3.99 | d. 7.99 |
| 8. | What is | |
| a. | 35% of 56 kg | b. 11.1% of 32kg |
| c. | 3.75% of 200 ml | d. 0.75% of 13 oz |

| 9. | Change to decimal | | | | | |
|-----|---|------------------------|-------|--|-----------|--|
| a. | 81% | | b. | 0.55% | | |
| c. | 133% | | d. | 0.05% | | |
| 10. | Change to a fraction (low | est terms please) | | | | |
| a. | -65% | | b. | 44% | | |
| c. | 55.5% | | d. | 0.33% | | |
| 11. | 11. We ordered 312 kilogram of lab chemicals.a. What percentage did we use if we utilized 77 lbs?b. What percentage is left over? | | | | | |
| 12. | Convert the following to t | he proper unit of meas | surem | ent | | |
| a. | 35 g / 100 ml | | b. | 0.1 g / 100 ml | | |
| 13. | Convert the following to t | he proper unit of meas | surem | ent | | |
| a. | 11g of dextrose in 100 m solution | | b. | 14.99 ml of sodium ch 100 ml solution | loride in | |
| 14. | 14. Convert the following Packed Cell Numbers to the proper unit of measurement | | | | | |
| a. | 55 dog1 | | b. | 60 dog ₂ | | |
| 15. | 15. Convert the following solutions to percents | | | | | |
| a. | 26 ml of dextrose in 100 | ml | b. | 15.5 ml of formalin in | 100 ml | |
| c. | 0.25 ml of formalin in 10 | 0 ml | d. | 6 ml of formalin in 100 |) ml | |
| 16. | Reduce the ratio to fractio | on form | | | | |
| a. | 9:45 | | b. | 15:100 | | |
| 17. | 17. Solve the following. Be sure to show units where applicable | | | | | |
| a. | $\frac{70 mg}{1 cap} = \frac{N mg}{12 cap}$ | | | | | |
| b. | $\frac{76 mg}{100 ml} = \frac{50 mg}{N ml}$ | | | | | |

18. Calculate the conversion and show the calculation in the box to the right of the answer

| | ml | |
|-----------|-------|--|
| 10 tsp = | 1111 | |
| 200 kg = | lb | |
| 45 cm = | in | |
| 2500 ml = | L | |
| 3 fl oz = | ml | |
| 1.35 kg = | g | |
| 88 mg = | g | |
| 3 gal = | qt | |
| 12 qt = | с | |
| 6 pt = | с | |
| 150 ml = | L | |
| 4 tbsp = | fl oz | |
| 0.5 gr = | mg | |
| 50 gr = | mg | |
| 0.5 gal = | cups | |
| 7 qts = | gal | |
| 20°C = | °F | |
| -5°F = | °C | |

- 19. Our X-rays in 2012 were \$50. This year they will be 8% higher. What will be the new cost?
- 20. If 1 tablet contains 65 mg of drug, how many milligrams of drug does 10 tablets have?
- 21. We have 5 dogs for every 2 cats. What is the ratio of cats to dogs?
- 22. The veterinarians orders 375 mg of medication in every 100 ml of liquid. How much medication is required in 350 ml of liquid?
- 23. Tonya works at an animal clinic and receives a 10% discount. What would Tonya pay for the \$500 treatment?
- 24. A patient receives a total of 65g of medication. If the patient received the total over a 10-day period and was given 3 doses a day, what was the strength of each dose?
- 25. When performing an estimate platelet count, these cells are counted per high power field and the total from 10 fields are all added together. Next this is multiplied by 15000. You observe 10 fields and the fields have a total number of 88 platelets. What is the final count of platelets? Please provide your answer in scientific notation.