Vet Tech Mathematics

Name: _____   **Date:** _____

1. What is

a. 17.11% of 65 mL

b. -2.89% of 6 mg

c. 15.06% of 3 kg

d. 0.088% of 25 mL

2. Compute the weight of vegetables and meat in the 50 kg of feed

   a. 13.5% filler

   b. 43.82% vegetable

3. 35 pounds of lab chemicals were ordered.

   a. What percentage did we use if we utilized 18 lbs?

   b. What percentage is left over?

4. Convert the following to gram per deciliter

a. 87 g / 100 ml

b. 13.8 g / 100 ml

c. 0.9 g / 100 ml

d. 11.1 g / 100 ml

5. Convert the following Packed Cell Numbers to gram per deciliter

a. 42 dog_1

b. 21 dog_2

c. 24 pig_1

d. 38 cat_1

6. Convert the following solutions to percent

a. 13 ml of dextrose in 100 ml

b. 56 ml of formalin in 100 ml

c. 7.9 ml of dextrose in 100 ml

d. 5.01 ml of formalin in 100 ml

7. Reduce the ratio to fraction form

a.   3:18

b.   18:72

8. Solve the following. Be sure to show units where applicable

a. $\dfrac{10\text{ mg}}{1\text{ cap}} \times \dfrac{N\text{ mg}}{8\text{ cap}}$

b. $\dfrac{250\text{ mg}}{100\text{ ml}} \times \dfrac{N\text{ mg}}{200\text{ ml}}$

c. $\dfrac{320\text{ mg}}{80\text{ ml}} \times \dfrac{N\text{ mg}}{200\text{ ml}}$

d. $\dfrac{10\text{ mg}}{120\text{ ml}} \times \dfrac{N\text{ mg}}{400\text{ ml}}$

e. $\dfrac{5\text{ mg}}{1\text{ cap}} \times \dfrac{N\text{ mg}}{10\text{ cap}}$

f. $\dfrac{15\text{ ml}}{50\text{ lbs}} \times \dfrac{N\text{ ml}}{312\text{ lbs}}$

9. Solve the following. Be sure to show units where applicable

12°C =   °F

150°F   °C

-35°C =   °F

-40°F =   °C