

Basic Mathematics for Vet Techs

Name: _____ **Date:** _____

1. The manager says there is an error in the calculation. The order is for 2 ounces per day. Circle all the other errors and calculate the correct answer.

$$\frac{50\text{kg}}{1} \times \frac{3.0\text{ lb}}{1\text{ kg}} \times \frac{12\text{ oz}}{1\text{ lb}} \times \frac{1\text{ day}}{2\text{ oz}} = 900\text{ days}$$

2. You have 36 quarts of medicine in the trailer at the New Mexico ranch. How many cubic centimeters (cc) is this amount if there is 32 fl oz in a quart and 33.8 fl oz in 1000 cc (1 Liter)?

3. The material has the ability to stretch 90 lb per inch. Doctor Smith wants to know the conversion in kg per cm if 2.2 lb equals 1 kg and 1 inch is 2.54 cm.

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4. Terry, the Vet Tech is asked to test a new dog leash at 65°C , however, the environmental chamber in the lab only takes Fahrenheit settings. What is the temperature in Fahrenheit?

5. Polar bears have been known to survive in the arctic where temperatures are around -40 degrees Fahrenheit. What is the temperature in Celsius? What is unique about this temperature?

6. Dr. Denise Ryan has 442 farm animals to test this week. She estimates that each animal will need a 25 minutes procedure. Can three technicians complete the work in a week by covering all 24 hours of the day (each working 8 hours a day)?

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7. There are 16 cases of medicine for the farm animals. Each case holds 12 bottles that contain 1.25 L each. In the county, there are 22245 animals that require the vaccination of 10 cc each. Do we have enough medicine to complete the vaccinations?

8. Dr. Thomas wants the animal to receive 1.5 L per day. The medicine states that there will be 60 drops per ml. How many drips per second do we set the apparatus for?

9. Dr. Vicky Sparks needs 4.5 liters of solution to treat the dog and we only have pint containers. Using the unit factor method, how many pints do we need? There are 16 fl oz in a pint and 33.8 fl oz in a liter.

10. We are traveling from France to Germany and our instructions say that we will be averaging 110 km per hour on the highway. What is that rate of travel in mph?

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11. Dr. Stevens needs us to use 25 grams on 1580 farm animal. The container of medicine holds 320 grams. There are eight containers in a case. How many cases do we order to treat the animals?

12. What is 150 L per week when we calculate it for ml per sec?