Basic Mathematics for Vet Techs – Percentages and Metric Exercise

Na	ame:	Date:				
<u>Er</u>	nglish and Metric S	System Revi	ew			
1.	1 kilometer equals		_ meters equals		cm equals	mm
2.	1 kiloliter equals		_ liters equals		cL equals	mL
3.	1 kilogram equals		_ grams equals		cg equals	mg
4.	Weight (mass)					
	1 lb =	oz		_ lb = 1 ton	1 lb =	g
	1 kg =	pounds		_ g = 1 oz	1 kg =	g
5.	Length					
	1 yd =	_ ft		_ in = 1 ft	1 mile =	ft
	1 in =	_ cm		_ mm = 1 in	1 m =	in
	1 ft =	_ m		_ mm = 1 m	1 m =	cm
6.	Volume					
	1 gal =	_ qt		_ fl oz = 1 gal	1 c =	fl oz
	1 gal =	_ fl oz		_ mL = 1 L	1 L =	fl oz
	1 tbsp =	_ tsp		_ mL = 1 tsp	1 G =	L
	2 tbsp =	_ fl oz		_ mL = 1 tbsp	1 L =	CC
<u>Si</u>	mple Conversions					
7.	The Vet needs the following units need converted:					
	a. Porous Tape 1 inch by 10 yds converted to				_ mm by	_ meters
	b. 1 pint of flea shampoo to mL					
	c. 4 oz of supplement to g					
d. 98.5 lb dog to kg equals g						

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- e. 12 gal of solvent to _____ L equals _____ mL
- f. 11 ft elephant to _____ m equals _____ mm
- g. Hoof circumference of 9.5 inches to _____ cm
- h. 90 km to the animal reserve outside Accra is _____ miles
- i. 2 gallons converted to _____ fl oz equals _____ tbsp
- j. Dog owner needs to give dog 2.5 mL medicine or ____ tsp

Percentages

8. The Vet wants our practice to reduce electric consumption by 15%. We determine that the each door could use weather stripping. We measure that we need 36 inches for each door and we have 5 exterior doors in the building. We have 6 meters of weather stripping. What is the percentage of the weather stripping we will use?

9. We are planning to treat each of 359 cows with 2 oz of medical solution. We have 30 kg of the solution . What is the percentage of the solution we will use? What is the percentage of the solution we will have left?.

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10. We will need 300 lbs of chemical for the treatment at the farm. The chemical cost \$15.50 per kg. The farmer wants to sign an agreement to pay back the cost of the chemical over 2 years. He will have a 6½% interest rate for 24 months. Using the formula I = PRT, where P is the cost of the chemical, R is the interest rate and T is time in years. What is the interest on the loan and the total cost of the chemical? What is the monthly payment?

11. We need to add supplement to the rabbit food and the container says the ratio is 2 part supplement to nine parts food. The amount of rabbit food is 3.5 ounces. How much supplement do we need in grams?

12. Michelle, the technician is given 5 Gallons of solution X. She gives each animal 5 ml on the solution. How many dosages can Michelle give out?



Height of Different Animals

13. The chart above shows the length of different animals. Convert each animal height to meters.



14. The height of a cuscus is what percent of a zebra?

15. The height of an horse is what percent of an elephant?

16. The height of a horse is what percent of a zebra?